Welcome

Charleston Defense Contractors Association

60th Small Business and Industry Outreach Initiative Symposium (SBIOI)

20 April 2022

Naval Information Warfare Center ATLANTIC

Naval Information Warfare Center Atlantic

Expeditionary Warfare (ExW) Department

Charleston Defense Industry Association
60th Small Business and Industry Outreach Initiative Symposium
20 April 2022

Ashlee Landreth, SSTM
NIWC Atlantic
ExW Department Head

Naval Information Warfare Center ATLANTIC

Agenda

- Organizational Structure
- Strategic Guidance
  - NAVWAR Strategic Vector
  - Marine Corps Strategic Guidance
  - SOCOM Strategic Guidance
- 2022 Priorities
  - Marine Corps Priorities
  - SOCOM Priorities

Expeditionary Warfare Department FY21: 639 FTEs — 73 Projects — 20 IPTs

ExW Department — Rapidly delivering C4ISR, Cyber and IT systems and engineering services to meet the Information Warfare needs of the Marine Corps and Special Operations Command.

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Expeditionary Warfare Department

Enabling Commanders in Faster Decision-Making

Expeditionary Warfare

Ashlee Landreth, SSTM

Divisions

- **Expeditionary Intelligence Solutions**
- **Expeditionary Enterprise Systems & Services**
- **Land Systems Integration**
- **Expeditionary Command, Control and Communications Solutions**

Expeditionary Warfare *FY21: 639 FTEs — 73 Projects — 20 IPTs*

Rapidly delivering C4ISR, Cyber and IT systems and engineering services to meet the IW needs of the Marine Corps and Special Operations Command.

- Deliver IW capabilities to the USMC and SOCOM
- Provide full spectrum C4ISR systems and services to Marines and Special Forces.
- Supporting Wargaming & Experimentation
- Deliver Capabilities that Enable Successful Stand In Forces
- Enable Joint All Domain Integration
- Ensuring S&T/R&D Progression

Lightening the load for Marine Intel Units — Demonstrating satellite surrogate technology for Marines — Helping Marines achieve Space Force Certification for next-generation GPS — Creating compact, removable Networking on the Move technology for the Marine Corps — Bringing DevSecOps to Marine Corps (MCBOSS)

Major Sponsors

- MARCORSYSCOM
- SOCOM
- HQMC
- PEO Land Systems

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Organizational Structure

Expeditionary Warfare Department
Ashlee Landreth

Deputy
Pete Ward

Expeditionary Intelligence Solutions (EIS) Division
Toby Straight

IPTs

- Distributed Common Ground/Surface System – Marine Corps (DCGS-MC) IPT
- Signals Intelligence (SIGINT) IPT
- Special Ops ISR Solutions (SOIS) IPT
- Electronic Warfare Systems (EWS) IPT
- Terrestrial Collections Identity Operations (TCIO) IPT
- Expeditionary Intelligence, Surveillance, and Reconnaissance (ISR) Sustainment IPT

Expeditionary Enterprise Systems & Services (E2S2) Division
Don Yeske

IPTs

- Wireless Enterprise Systems & Services (WES2) IPT
- Enterprise Communication Infrastructure (ECI) IPT
- Enterprise Engineering & Integration Services (E2IS) IPT
- Enterprise Network Infrastructure (ENI) IPT

Land Systems Integration (LSI) Division
Ryan Price

IPTs

- Vehicular Technology Transition (VTT) IPT
- Fielded Ground Vehicles IPT
- Counter Threat Platforms (CTP) IPT
- Advanced Reconnaissance (AR) IPT
- Modern Vehicle Fielding (MVF) IPT

Expeditionary Command, Control and Communications Solutions (EC3S) Division
Tim Turner

IPTs

- Tactical Services and Infrastructure (TSI) IPT
- Command and Control Situational Awareness (C2SA) IPT
- MAGTF C2 Services and Applications (MC2SA) IPT
- USMC Communications Systems (UCS) IPT
- Special Operations Communications Systems (SOCS) IPT

NIWC Atlantic's Strategic Framework

Aligns to Higher Strategic Guidance & NAVWAR Strategic Vector

NAVWAR Strategic Objectives:

Foster a World-class Workforce | **Ensure Information Readiness** | **Lead Naval Digitalization**

NIWC Atlantic Goals and Objectives :

Cultivate a Winning Team:

Cultivate a winning workforce rooted in our core values, with a deep understanding and connection of the warfighter and each other.

I. Engage the Workforce in Meaningful Ways
II. Optimize the Workforce
III. Increase Connectedness

Deliver Competitive Advantages to the Warfighter:

Maintain and deliver the most critical information warfare solutions that the warfighter needs to win today, while developing capabilities for the future force.

I. Prioritize Mission Critical Work
II. Deliver Ready, Advanced Naval Solutions, On Time
III. Reimagine Naval Power

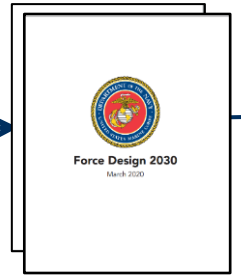
Lead in the Digital Age:

Increase our operational velocity, leveraging digital practices and driving data-informed, human driven decisions.

I. Operationalize Digital Practices
II. Lead with Data
III. Invest in Physical and Virtual Capability Accelerators

ExW's Strategic Framework

Aligns to LANT/MC/SOCOM Guidance



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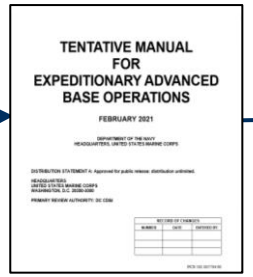
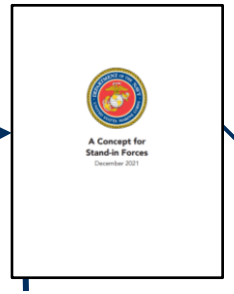
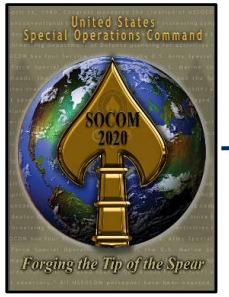
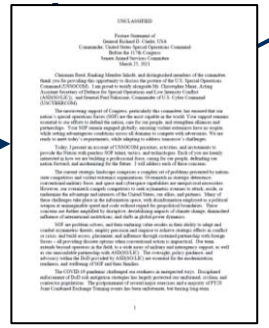
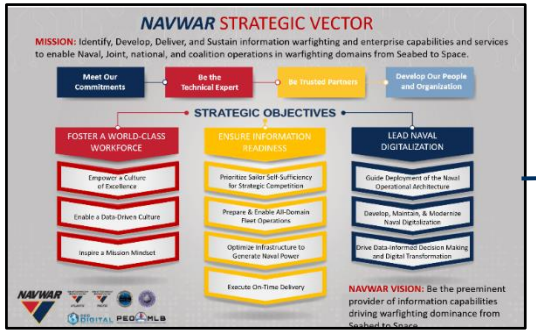




Concept for Naval & SOF Operations (4* routing)







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ExW Dept Priorities-2022 SUMMARY

Deliver Comp Adv to the Warfighter

- Support Wargaming & Experimentation
- Deliver Capabilities that Enable Successful Stand In Forces
- Enable Joint All Domain Integration
- Ensure S&T/R&D Progression

Cultivate a Winning Team

- Increase Mission Understanding
- Maintain/Increase Customer Satisfaction
- Collaborate with Internal & External Stakeholders
- Support Strategic Positions & Work Shaping Initiatives

Lead in the Digital Age

- Improve Digital Infrastructure
- Adopt/Increase Digitally Native Processes
- Leverage Digital Collaboration & Management Tools

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USMC Opportunities (15 prioritized investments)

- **Expeditionary C5ISRT/counter-C5ISR naval grid that can operate when national connections are lost or degraded.**
- **Semi-Autonomous Air-Surface Vessels: sensing, targeting, lethality and connectivity, degraded, austere environment.**
- **Short-range (point defense) air defense systems, with an objective of longer ranges.**
- **Network Modernization, to include artificial intelligence and cloud technologies.**
- **Disruptive capabilities to dominate OIE; countering malign messaging and actions.**
- **Resilient communications architectures, to close kill chains in austere environments and JADC2 compatible.**
- **Amphibious Combat Vehicle – Mobile C4ISR platforms with EW, sensor fusion, and OPF options for infantry expeditionary forces.**
- **Expeditionary logistics systems to sustain Stand-In Force in a contested environment**
- Expeditionary long-range precision fires and infantry battalion organic fires (Organic Precision Fires (OPF)).
- MAGTF Unmanned Expeditionary Medium Altitude Long Endurance aerial systems and sensors.
- Modernization of training capabilities to ensure Marines are best prepared for the future operating environment.
- Long Range Unmanned Surface Vessel with associated swarming drones.
- Remotely Operated Ground Unit Expeditionary (ROGUE Fires).
- Reliance on Navy partners: to produce / sustain vital maneuver for the Stand-In Force; amphibious warships, the new Light Amphibious Warship, and robust connectors to enable littoral maneuver and logistical support to a widely disaggregated naval Force.
- Artificial intelligence-enabled force protection.

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SOCOM Opportunities

- **Special Communications**
  - Resilient, survivable, federated networks and information ecosystems critical for successful execution of SOF mission
- **Tailorable Lethality**
  - Significant increases in precision effects and combat lethality to deliver small unit dominance
- **Electronic Warfare**
  - Offensive EW & Cyber effects that can enable or execute collaborative non-kinetic/kinetic effects., austere environment.
- **Human Performance Optimization**
  - Novel means to monitor in real time, while safely improving/increasing the SOF operator's physical and cognitive abilities
- **Data Enabled SOF**
  - Advance in AI/ML and edge computing techniques to enable data accessibility, advanced processing and analysis, and dissemination in contested/disconnected operative environments
  - Advance SOF effectiveness through flexible autonomy, reduced operator cognitive loading, and timely actionable insight to tactical decision making.

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Serve our Nation by delivering information warfare solutions that protect national security.

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Web: https://www.niwcatlantic.navy.mil — Facebook: https://www.facebook.com/NavalInformationWarfareSystemsCommand

Twitter: https://twitter.com/navwarHQ — Instagram: https://www.instagram.com/navwar_usnavy/ — LinkedIn: https://www.linkedin.com/company/navwar/

Employment opportunities: https://www.usajobs.gov/ — NIWC Atlantic Small Business: https://www.niwcatlantic.navy.mil/for-industry/

NAVWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil

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Expeditionary Intelligence Solutions Division

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Mr. Toby Straight
Expeditionary Intelligence Solutions Division Head
NIWC Atlantic

Inspire, Collaborate, Support, Execute

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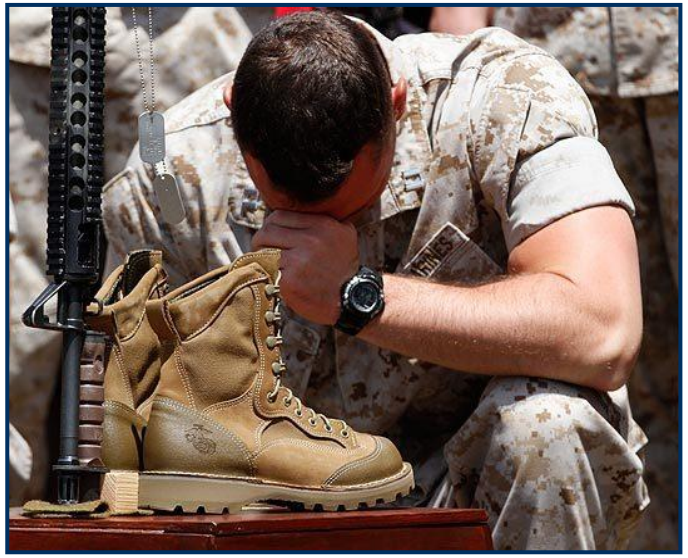
Understand the Environment **and the Importance of our Work**

Challenge / Opportunity

***Inspire**



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Expeditionary Intelligence Solutions (EIS) Division Overview

*Collaborate

Primary Partners:

- MCSC (PMIS)
- SOF AT&L (PEOs SR, Maritime, SDA, S&T)
- MCWL
- CD&I (OAD)
- NSA
- TECOM
- FMF
- ONR
- MARCENT

Focus Areas

Information and Data Architecture / Enterprise Services

Sense, Make Sense, Act

Naval Integration

Signature Management

Fleet Engagement

What We Do

Provides full spectrum expeditionary intelligence capabilities, technologies and solutions to the warfighter

Solution Areas (Horizontal/Vertical Integration)

- Measurement and Signature Intelligence
- Signals Intelligence
- Electronic Warfare
- Geospatial Intelligence
- Counter Intelligence
- Open Source and Social Media Intelligence
- Identity Operations

MCISRE 2030 must align service intelligence, surveillance and reconnaissance effort to achieve decision advantage for the Fleet Marine Force commanders and intelligence leaders with all domain ISR battlespace awareness, predictive analysis, and assessment necessary for increased lethality and expeditionary force dominance of actively contested littoral spaces.

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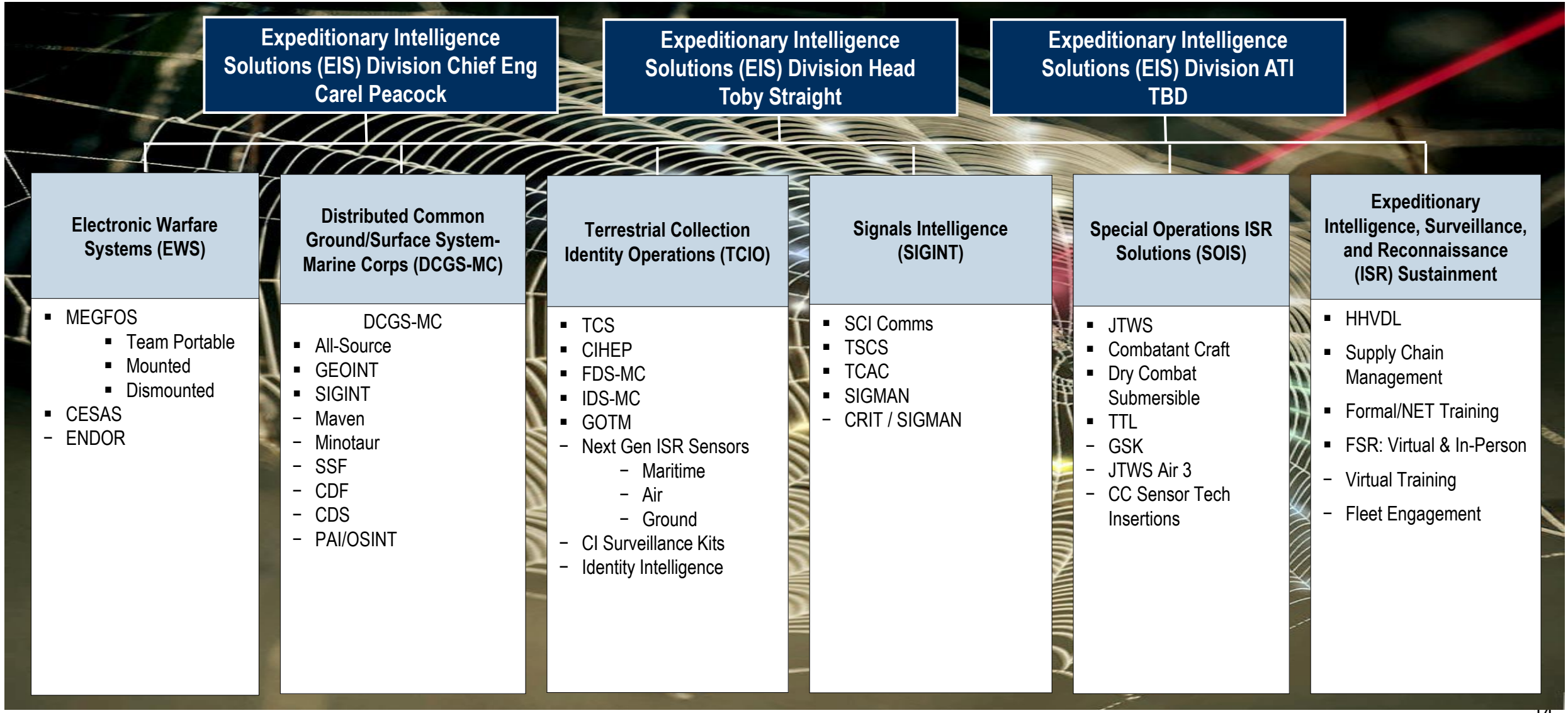
EIS Division Organization / IPT Focus Areas

*Support



Expeditionary Intelligence Solutions (EIS) Division Chief Eng
Carel Peacock

Expeditionary Intelligence Solutions (EIS) Division Head
Toby Straight

Expeditionary Intelligence Solutions (EIS) Division ATI
TBD

Electronic Warfare Systems (EWS)

- MEGFOS
  - Team Portable
  - Mounted
  - Dismounted
- CESAS
- ENDOR

Distributed Common Ground/Surface System-Marine Corps (DCGS-MC)

DCGS-MC

- All-Source
- GEOINT
- SIGINT
- Maven
- Minotaur
- SSF
- CDF
- CDS
- PAI/OSINT

Terrestrial Collection Identity Operations (TCIO)

- TCS
- CIHEP
- FDS-MC
- IDS-MC
- GOTM
- Next Gen ISR Sensors
  - Maritime
  - Air
  - Ground
- CI Surveillance Kits
- Identity Intelligence

Signals Intelligence (SIGINT)

- SCI Comms
- TSCS
- TCAC
- SIGMAN
- CRIT / SIGMAN

Special Operations ISR Solutions (SOIS)

- JTWS
- Combatant Craft
- Dry Combat Submersible
- TTL
- GSK
- JTWS Air 3
- CC Sensor Tech Insertions

Expeditionary Intelligence, Surveillance, and Reconnaissance (ISR) Sustainment

- HHVDL
- Supply Chain Management
- Formal/NET Training
- FSR: Virtual & In-Person
- Virtual Training
- Fleet Engagement

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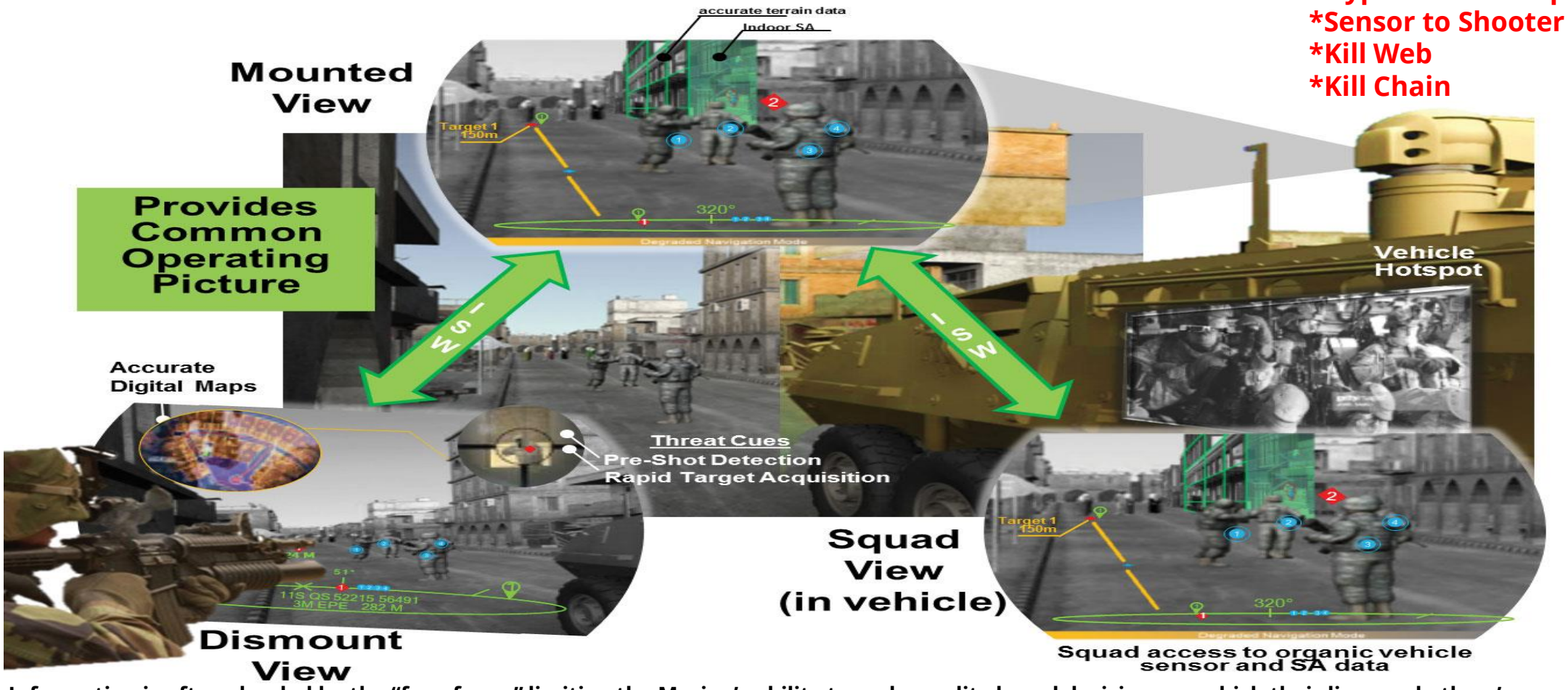
Unite across the Enterprise the Digital and Real World

*Execute

*Hyper Enabled Operator
*Sensor to Shooter
*Kill Web
*Kill Chain



Information is often clouded by the "fog of war," limiting the Marine's ability to make reality-based decisions on which their lives and others' depend.

A Marine cannot afford to be mentally or physically fatigued. They do not have the leisure to sort through every bit of information, or the time to judge the value of the information received.

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Expeditionary Enterprise Systems and Services (E2S2) Division Overview

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60th Small Business and Industry Outreach Initiative Symposium
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Mr. Jason Brooks
Enterprise Network Infrastructure
Tech Lead
NIWC Atlantic

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Expeditionary Enterprise Systems and Services (E2S2) Division Overview

Primary Partners:

- **PEO Digital Enterprise Services**
  - **PfM Marine Corps Supporting Establishment Services**
- **PEO Manpower, Logistics, and Business (MLB)**
  - **PMW 230**
- **MARCORSYSCOM**
- **Headquarters Marine Corps**
  - **DC Information (DC I)**
- **MARFORCYBER**
  - **Marine Corps Cyberspace Operations Group (MCCOG)**
- **ASN (RDA)**

IPTs

Wireless Enterprise Systems & Services

Enterprise Communication Infrastructure

Enterprise Engineering & Integration Services

Enterprise Network Infrastructure

What We Do

- We conceive, develop, implement, operate, and modernize enterprise network services and infrastructure for the Department of the Navy, through the United States Marine Corps.

Major Systems / Solutions

- Enterprise network services
  - Marine Corps Business Operations Support Services (MCBOSS; Marine Corps DevSecOps Platform Services)
  - Hybrid Cloud Services (HCS)
  - Enterprise Staging & Delivery (ES&D)
  - Direct support for sponsors (PMW-230, DC I, MCCOG, etc.)
- Enterprise network infrastructure
  - Enterprise Infrastructure Modernization (EIM)
  - SONIC VDI (zero-client solution for MCEN-S)
  - Public Safety Systems (PSS)
  - Marine Corps Mobility & Wireless infrastructure (including 5G)

Powering the kill chain transformation

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Organizational Structure

Expeditionary Enterprise Systems & Services Division Head
Don Yeske

E2S2 Chief Engineer

Left-Side Support for mission partners:
▪ DC I (IC4) ▪ PEO MLB ▪ PEO Digital

Wireless Enterprise Systems & Services (WES2) IPT	Enterprise Communication Infrastructure (ECI) IPT	Enterprise Network Infrastructure (ENI) IPT	Enterprise Engineering & Integration Services (E2IS) IPT
Projects ▪ DoD/DON-level 5G experimentation ▪ USMC-specific DoD 5G experimentation ▪ USMC-unique wireless material solutions	**Projects** ▪ USMC and Army Public Safety Systems / Emergency management capabilities & services ▪ USMC Unified Capabilities (UC) voice systems / Enhanced transport capacity / Convergence of voice, video, and data ▪ Receive, inventory, integrate and Implement cybersecurity and best practices for USMC IT assets	**Projects** ▪ DON and USMC network infrastructure modernization ▪ USMC-unique enterprise network material solutions	**Projects** ▪ DON and USMC DevSecOps Platform Services ▪ Cross-service rapid prototyping and integration

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E2S2 Industry Support – existing & planned

As of: 01-Apr-2022

Contract Strategy - Expeditionary Enterprise Systems and Services Divisio

Value: $500M over Five-Years

LEGEND: Completed | Awarded | In-Work | Planned

IPT	Project	Functional Area (Task Book Tasks)	Fiscal Year 2021				Fiscal Year 2022				Fiscal Year 2023				Fiscal Year 2024				Fiscal Year 2025			
			1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
DIV	All	Pgm, Fin Mgmt, Technical Analysis Spt, N00178-16-D-9040/N6523618F3074, Value: $10.0M, PoP: 18May18-17May23, Seaport-e SB, (PPS-17-051-0002), Base plus 4 Options	PM/FM/Technical/Analytical Spt (Opt 2)($2.3M)(18May20 - 17May21)				PM/FM/Technical/Analytical Spt (Opt 3)($2.3M)(18May21 - 17May22)				PM/FM/Technical/Analytical Spt (Opt 4)($2.3M)(18May22 - 17May23)											
DIV	All	Division Technical and Management Consultation Spt, Seaport-NxG; Base plus 4 Options, NBD 28-Apr-2023, Value: $11.0M, Security Level: Unclassified (PPS-22-121-0001)											DIV Tech and Mgmt Cons Spt (Base)(Apr23 - Apr24)				DIV Tech and Mgmt Cons Spt (Opt1)(Apr24 - Apr25)				DIV Tech and Mgmt Cons Spt (Opt2)(Apr25 - Apr26)			
DIV	All	Technical, Operations, Analysis, & Sustainment Spt., Seaport-NxG, N6523620F3012, Base + 4 Options, (PoP: 11-Dec-2019 to 10-Dec-2024), Value: $22.4M, CPFF, Security Level: SECRET (PPS-19-118-0002)	Technical, Operations	Technical, Operations, Analysis Spt (Opt 1)($4.4M)(11Dec20 - 10Dec21)			Technical, Operations, Analysis Spt (Opt 2)($4.5M)(11Dec21 - 10Dec22)				Technical, Operations, Analysis Spt (Opt 3)($4.5M)(11Dec22 - 10Dec23)				Technical, Operations, Analysis Spt (Opt 4)($4.6M)(11Dec23 - 10Dec24)							
DIV	All	Technical, Operations, Analysis, & Sustainment Spt., Seaport-NxG, Base plus 4 Options, NBD 10-Aug-2023, Value: $49.M, CPFF, Security Level: SECRET (ES Dept. Leading the Procurement)													Technical, Operations, Analysis Spt (Base)(Aug23 - Aug24)				Technical, Operations, Analysis Spt (Opt1)(Aug24 - Aug25)				Technical, Operations,	
DIV	All	Systems Engineering, Automated Tools, and Test Support. (Follow-on), Seaport-NxG; N00017819D8123 /N6523621F3028; Base + 4 Options, PoP: 28-Jun-2021 to 27-Jun-2026, Value: $23,286,698.41, CPFF, Security Level: SECRET (PPSM-20-297)				Sys. Eng. Spt. (Base)($4.6M)(28Jun21 - 27Jun22)					Sys. Eng. Spt. (Opt 1)($4.M)(28Jun22 - 27Jun23)				Sys. Eng. Spt. (Opt 2)($4.4M)(28Jun23 - 27Jun24)				Sys. Eng. Spt. (Opt 3)($4.4M)(28Jun24 - 27Jun25)			
ENI / E2IS	MCEITS / MSO / BMA	HQ SPAWAR Data Center Capacity as a Service (CaaS); N00039-17-D-0003; PoP: 9Mar2017 to 8Mar2024; Value: $49.9M	CaaS Support IDIQ Mar 2017 - Mar 2024																			
ECI	PSS / ISTC	USMC ERS and BTI Support (Seaport-e) (N00178-04-D-4119) (N6523619F3015) (PoP: 27Dec18 - 26Dec23), (Base plus 4 Options), Value: $38M) (CPFF) (PPS-17-106-0002)	ES2 Support (Opt 1)($7.5	ES2 Support (Opt 2)($7.5M)(27Dec20 - 26Dec21)			ES2 Support (Opt 3)($7.4M)(27Dec21 - 26Dec22)				ES2 Support (Opt 4)($7.3M)(27Dec22- 26Dec23)											
ECI	ES&D	ES&D Support Services, (Seaport-e SBSA),N0017814D7736 / N6523618F3035 Value: $14.6M, PoP: 30-Apr-18 to 29-Apr-23, (Base + 4 Options) (PPSM-16-068-0002)	ES&D Support Services (Opt 2)($3.0M)(30Apr20 - 29Apr21)				ES&D Support Services (Opt 3)($3.0M)(30Apr21 - 29Apr22)				ES&D Support Services (Op 4)($3.0M)(30Apr22 - 29Apr23)											
ECI	ES&D	Enterprise Staging & Warehouse Spt for ES&D, Seaport-NxG; Base + 4 Options, NBD 28-Feb-2023, Value: $20.0M, Security Level: Unclassified (PPS-22-190-0001)											Enterprise Staging & Warehouse Spt for ES&D (Base)(Feb23 - Feb24)				Enterprise Staging & Warehouse Spt for ES&D (Base)(Feb23 - Feb24)				Enterprise Staging & Warehouse Spt for ES&D (Base)(Feb23 - Feb24)			
ENI / E2IS	MCEITS / LSS / ADTS / MSO	MCEITS Datacenter Infrastructure & Applications Services Support (Seaport-e SBSA); N0017814D7693 / N6523618F3024, PoP: 15Dec17 - 14Dec22; Value: $44.1M; Base + 4 Option Years; (PPSM-16-059-0002)	MCEITS Suppo	MCEITS Support (Opt 3)($8.9M)(15Dec21 - 14Dec22)			MCEITS Support (Opt 4)($8.9M)(15Dec22 - 14Dec23)															
E2IS	MCBOSS	MCBOSS Cloud Services, NCCS BPA N00039-18-A-0003/N6523621F0829, (PoP: 27-Sep-21 to 26-Sep-22), Base Only, Value: $5,789,686.16, FFP (PPS-20-019-0001)					MCBOSS Cloud Service (Base)(27-Sep-21 - 26-Sep-22)															
E2IS	MCBOSS	MCBOSS Cloud Services, NCCS BPA N00039-18-A-0003/N6523622Fxxxx, (PoP: 27-Sep-21 to 26-Sep-22), Base Only, NBD 27-Sep-2022, Value: $7.2M, FFP									MCBOSS Cloud Service (Base)(27Sep22 - 26Sep23)											
E2IS	MCBOSS	Cloud Services - Transition, Modernization, Engineering Services Follow-on, (Seaport-NxG); N0017819D8183 / N6523621F3031; Base + 3 Options, T&M, (PoP: 17Sep21 to 16Sep25), Value: $42.4M, (PPS-20-131-0001)					Transition & Modernization Svc (Base)($10.3M)(17Sep21 - 16Sep22)				Transition & Modernization Svc (Opt 1)($10.4M)(17Sep22 - 16Sep23)				Transition & Modernization Svc (Opt 2)($10.6M)(17Sep23 - 16Sep24)				Transition & Modernization Svc (Opt 3)($10.6M)(17Sep24 - 16Sep25)			
WES2	ERS	USMC ERS 5G Prototype, Information Warfare Research Project (IWRP) OTA, (PoP: 25-Sep-2020 to 24-Sep-2025), (Value: $28,652,996.87) (19-LANT-0070)	IWRP OTA ($28,652,996.87)(25Sep20 - 24Sep25)																			
WES2	ERS	OSD 5G Pilot, USA Contract, (PoP: 25-Sep-2020 to 24-Sep-2021), (Value: $861,363.95)	OSD 5G Pilot ($861,363.95)(25Sep20 - 24Sep21)																			
ENI	All	Cyber Engineering, Operations, & Security Spt., CME MAC, N6523620F3023, Base plus 4 Options, (PoP: 22-Jun-2020 to 21-Jun-2025), Value: $43.5M, CPFF, (PPS-19-052-0002), CPFF, Security Level: TS/SCI (PPS-19-052-0002)	Cyber Engineering, Operations, & Security Support (Base)($8.47M)(22Jun20 -				Cyber Engineering, Operations, & Security Support (Opt 1)($8.48M)(22Jun21 - 21Jun22)				Cyber Engineering, Operations, & Security Support (Opt 2)($8.49M)(22Jun22 - 21Jun23)				Cyber Engineering, Operations, & Security Support (Opt 3)($8.5M)(22Jun23 - 21Jun24)				Cyber Engineering, Operations, & Security Support (Opt 4)($8.51M)(22Jun24 - 21Jun25)			

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E2S2 Industry Support – emerging themes

- Technical management support services
  - SAFe coaching/mentoring support for various sponsors
  - Management of value streams and Agile Release Trains
- Development support services
  - “Cloud Sherpa” role (determining, finding, and directing mission owners to the right service providers to suit their needs)
  - PSS expertise for architecture, model, prototype, testing, and shareholder coordination. (Next Generation 911, FirstNet…)
  - Onboarding support (helping new development teams get into and begin using software factories)
- Development services
  - Rapidly scalable development teams capable of coming up to speed and working quickly in government-specified software factories
  - Specific expertise using government-owned/operated software factories (MCBOSS, Overmatch Software Armory, Platform One/Black Pearl, …)

Naval Information Warfare Center ATLANTIC

Serve our Nation by delivering information warfare solutions that protect national security.

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Web: https://www.niwcatlantic.navy.mil — Facebook: https://www.facebook.com/NavalInformationWarfareSystemsCommand

Twitter: https://twitter.com/navwarHQ — Instagram: https://www.instagram.com/navwar_usnavy/ — LinkedIn: https://www.linkedin.com/company/navwar/

Employment opportunities: https://www.usajobs.gov/ — NIWC Atlantic Small Business: https://www.niwcatlantic.navy.mil/for-industry/

NAVWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil

Naval Information Warfare Center ATLANTIC

Naval Information Warfare Center Atlantic

Land Systems Integration (LSI) Division

Charleston Defense Industry Association
60th Small Business and Industry Outreach Initiative Symposium
20 April 2022

Mr. Jeremy Richardson
NIWC Atlantic
Land Systems Integration Division Head
(Acting)

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Land Systems Integration Division

Overview

Primary Partners:

- PEO Land Systems
  - PM Advanced Amphibious Assault
  - PM Light Armored Vehicles
  - PM Ground Based Air Defense
- MARCORSYSCOM
  - PfM CES - PM C2S – NOTM
  - PfM CES – PM CS – EXCOMM
  - PfM GCES – PM Fires
  - PfM LCES – PM Light Tactical Vehicle
  - PfM LCES – PM Medium Heavy Tactical Vehicles
- USN - Naval Expeditionary PO
- USA
  - PM Light Tactical Vehicle
  - PM Medium Mine Protected Vehicles
- USAF - AFCENT/MRAP PO/JLTV PO

IPTs
Vehicular Technology Transition
Counter Threat Platforms
Advanced Reconnaissance
Modern Vehicle Fielding
Fielded Ground Vehicles

What We Do:

Provide **design, engineering and full scale integration** of C4ISR capabilities into tactical ground vehicle platforms. **Improve** efficiency and effectiveness of **integrating mission equipment on vehicle platforms** for **specific mission activities**. Provide **post-fielding sustainment support.**

Major Systems / Solutions

- C4ISR system integration (USMC, USN, USA, USAF)
- Platforms:
  - MRAP, JLTV, MTVR, LVSR
  - AAV, ACV, LAV, ARV….
- Networking on the Move (NOTM)
- Digital Integration Facility (DIF)
- APNT
- Marine AD Integrated System (MADIS)

Transforming Combat Vehicles into Mobile C4ISR Platforms

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Land Systems Integration Division Integrated Product Team (IPT) Organization

Land Systems Integration Division
Ryan Price

Vehicular Technology Transition (VTT) IPT

- AAA
  - AAV
  - ACV
  - FMS
- APNT
  - MCSC
  - MDA
- NOTM
- SOCOM(MODULAR COMMS VEHICLE)

Advanced Reconnaissance (AR) IPT

- LAV PWR / C2 / ICS
- ARV
- OPF-M
- ESM (Elec. Sys Mod)

Counter Threat Platforms IPT

- MADIS INC 1.0
- USAF
- PdM EWS
- PMS-408

Modern Vehicle Fielding(MVF) IPT

- JLTV-ECPs
- JLTV TPF
- JLTV JTEK
- MRAP Egress AF & Navy

Fielded Ground Vehicles (FGV) PT

- USN TVI MTVR/LVSR
- APNT
- CS/WINT
- AFATDS
- HSK –RSV
- GBASM
- ARCENT
- MRAP ARMY

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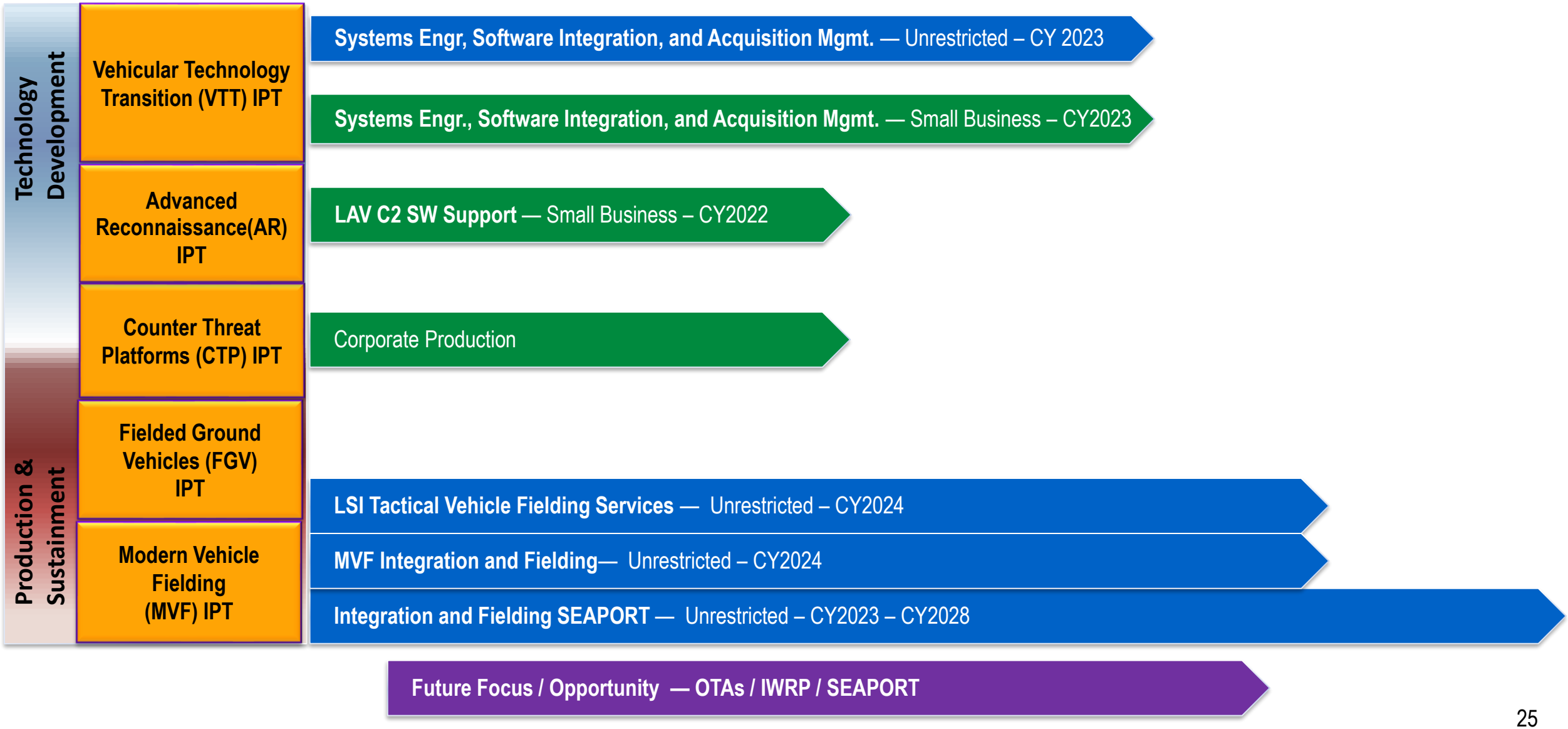
Land Systems Integration Division Integrated Product Team (IPT) Contracts



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ATLANTIC

Land Systems Integration Division

The Premier DOD organization for design, integration and fielding of C4ISR into Expeditionary Platforms

Pursue ways to automate our engineering work

- Digital Engineering to speed engineering decisions - M&S
- Mixed Reality – Supplement Engineering, Operations, and Sustainment.
- Modularity - Enable capability re-use across platforms as operations require.

Leverage economies of scale and scope across most DOD vehicle fielding efforts (Naval, USMC, Army, Air Force, and SOCOM) **to provide the highest value available in the DOD**

Partnering, aligning with other organizations in ways that accentuate the best each can provide

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Technologies to Enhance Land System Modernization

Modeling and Simulation

Model Based Systems Engineering

Human Factors / HSI

Approaches to Standardize Interfaces for Modularity

Mixed Reality

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Bottom Line

We are looking for technologies and techniques to rapidly deliver high quality C4ISR integrated Land Systems that meet/exceed the needs of the Warfighter.

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Expeditionary Command, Control and Communications Solutions (EC3) Division

Charleston Defense Industry Association
Small Business and Industry Outreach Initiative Symposium
20 April 2022

Mr. Tim Turner
NIWC Atlantic
EC3S Division Head

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Expeditionary C3 Solutions (EC3S) Division Overview

Primary Partners:

- MARCORSYSCOM
  - Portfolio Mgr. Command Element Systems (PfM CES)
- US Navy
  - Naval Expeditionary Program Office
- US SOCOM
  - SOF ATL
  - PEO C4 (SOF)
- MCWL
  - S&T Div
  - Ex Div
- PEO Land Systems
  - PM G/ATOR / PM FRS
- ONR

IPTs

Tactical Services and Infrastructure (TSI)

Command and Control Situational Awareness (C2SA)

MAGTF C2 Services and Applications (MC2SA)

USMC Communications Systems (UCS)

Special Operations Communications Systems (SOCS)

What We Do

- Develop, integrate and equip Expeditionary Forces with mobile C3 facilities, devices and services that provide fused situational awareness, facilitate information sharing and enhances the decision support process.

Major Systems / Solutions

- Common Hosting Environment (CHE)
- Combat Data Network (CDN)
- Operational Command Post (OCP)
- Joint Battle Command Platform FoS
- Tactical Communications Systems
- Tactical Service Oriented Architecture (TSOA)
- Global Command Control System (GCCS) Tactical Combat Operations (TCO)
- Marine Corps Common Handheld (MCH)
- USMC/Navy Tactical Mobility and Wireless Solutions
- Joint Tactical Common Operational Picture Workstation (JTCW)
- SOFTACS Deployable Network and SCAMPI

Provide and Sustain Tactical Command, Control and Communications capabilities to Expeditionary Forces

Naval Information Warfare Center ATLANTIC

EC3S Division Organization

Tim Turner
Division Head

MAGTF Command & Control Situational Awareness (MC2SA)

- Joint Information Environment
- Software/Apps Development and Integration
- Training Dev.
- C2 Data Analytics

Tactical Services & Infrastructure (TSI)

- Tactical Network Communications Infrastructure & Services
- Tactical System Applications & Services

Command & Control Situational Awareness (C2SA)

- Navy/Marine Corps Wireless & Mobility Solutions
- BFT Situational Awareness
- Embedded Systems

USMC Communications Systems (UCS)

- Tactical Communications Systems

Special Ops Comms Systems (SOCS)

- SOCOM Comms Systems
- SOCOM Network Sustainment
- SOCOM Kitting and Installations

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EC3S Division Thrust & Tech Focus Areas

Advancing technologies to build new capabilities relevant to Warfighter needs and operations

Technology Focus Areas

1. Artificial Intelligence
2. Assured Communications
3. Cloud Computing
4. Cybersecurity
5. DevSecOps
6. Mobility
7. Model-Based Systems Engineering
8. On-Demand Manufacturing

- Joint/Naval/MAGTF C2: Enable the transition of C2 capabilities from systems and applications to platform agnostic services. NIWC Atlantic is the lead software developer/integrator of the TSOA environment, mobile apps and services. NIWC Atlantic is participating in advancing JADC2.
- Tactical Network Modernization: Ongoing convergence of next gen COC, CHE, and CDN system architectures. Strong engagement with the Program Office to participate in the design and supporting a common architecture for both CDN and CHE. NIWC Atlantic is participating in tactical network architecture design and development ISO naval integration. Strong engagement with Program Office in design and support of war gaming.
- BFT/Mobility: Enable the transition of BFT Enhancements, BFT Naval Integration, Naval Mobile Devices, USMC End User Devices, and Mobile Kits. NIWC Atlantic is strongly engaged with Naval BFT integration and warfighter mobile environments.
- Tactical Comms Systems: Provide LPI/LPD and resilient communications in a tactical environment. NIWC is the leading integrator of modernized tactical communications systems for the USMC. NIWC is involved in Non-RF Transport, Free Space Optics (FSO), LiFi Technology, LPI/LPD, SATCOM enhancements, Comms resilience, Alternate Waveforms, and device SWaP reductions.
- SOCOM Technology: NIWC Atlantic is strongly engaged with the Program Office in the design and support of SOCOM Communications Enhancements, SOCOM Network Enhancements, and PEO C4 S&T systems.

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Challenges & Future Opportunities

- Joint / Naval C2 System Interoperability in support of EABO and Stand-in Force
- Artificial Intelligence / C2 Data Analytics
- Alternative configurations for distributed C2
  - Focus on distributed operations / C2 / Any Sensor Any Shooter
  - C2 must be resilient and redundant
  - Reduce electronic and thermal signatures
  - Transportability
- DevSecOps & MBSE supporting getting better capabilities to the tactical edge faster
  - Cross Domain Solutions
  - End Point SW Development
  - Map Rendering Technology
- Protected LPI/LPD SATCOM and new waveforms
  - Maritime and Ground Mobile SATCOM on the move
  - Non SATCOM BLOS High Bandwidth Communications
- Exercise Lessons Learned
  - Advanced Naval Technology Exercise (ANTX)
  - Naval Operational Exercises
  - Wargames / Simulations/ Live Virtual Constructive (LVC)

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Serve our Nation by delivering information warfare solutions that protect national security.

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

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Twitter: https://twitter.com/navwarHQ — Instagram: https://www.instagram.com/navwar_usnavy/ — LinkedIn: https://www.linkedin.com/company/navwar/

Employment opportunities: https://www.usajobs.gov/ — NIWC Atlantic Small Business: https://www.niwcatlantic.navy.mil/for-industry/

NAVWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil

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Questions ?

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Naval Information Warfare Center Atlantic

Charleston Defense Industry Association
60th Small Business and Industry Outreach Initiative Symposium

20 April 2022

Mr. Peter C. Reddy, SES
Executive Director
NIWC Atlantic

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Where We Fit in the DON Structure

Secretaries of the Departments

Army | Air Force | Navy

CNO/CMC
Chief of Naval Operations
Commandant Marine Corps

ASN (RDA)
Assistant Secretary of the Navy for Research Development and Acquisition

Program Executive Offices

SYSCOM Commanders & Associated PEOs

Deputy Commander NAVWARSYSCOM
Fleet Readiness Directorate (FRD)

NAVWAR

Naval Information Warfare Systems Command
(NAVWARSYSCOM)
Echelon II

Echelon III Activities

Naval Information Warfare Center ATLANTIC

Naval Information Warfare Center PACIFIC

NAVWAR Space Field Activity

Naval Sea Systems Command

Naval Air Systems Command

Naval Supply Systems Command

Naval Facilities Engr. Command

Marine Corps Systems Command

ONR
Office of Naval Research

NIWC Atlantic

Support ASN (RDA) — Serve Program Executive Offices

PEO Command, Control, Communications, Computers, Intelligence and Space Systems (C4I and Space Systems)

PEO MLB
PROGRAM EXECUTIVE OFFICE MANPOWER, LOGISTICS & BUSINESS SOLUTIONS

PEO Manpower, Logistics and Business Solutions (PEO MLB)

PEO DIGITAL
PROGRAM EXECUTIVE OFFICE DIGITAL & ENTERPRISE SERVICES

PEO Digital and Enterprise Services (PEO DES)

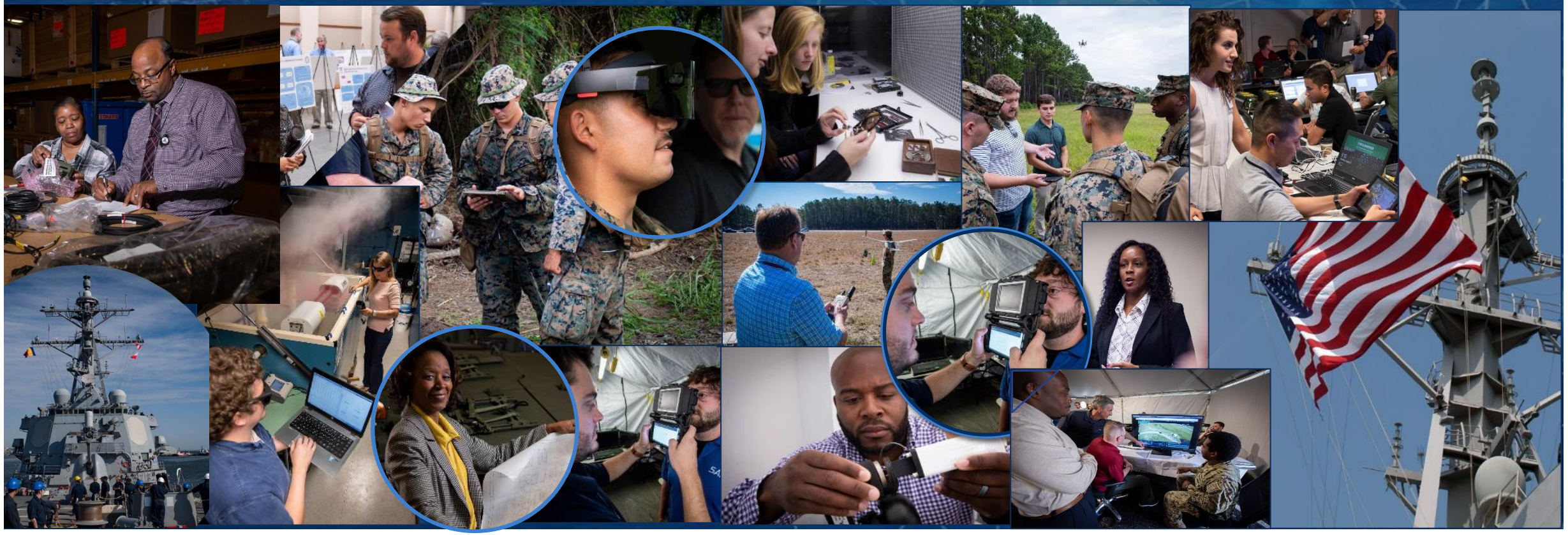
PEO Land Systems (PEO LS)

Naval Information Warfare Center ATLANTIC

Our work directly enables America to fight and win today and tomorrow.

Our purpose at NIWC Atlantic represents a clear and solemn calling:

We address the Warfighter's top technology challenges through research, development, delivery and sustainment of the very best IW solutions.



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Strategic Environment

- Russia's invasion of Ukraine
- Strategic competition with China and Russia ("pacing", "acute")
- Competitors using all dimensions of power
- U.S. military advantages eroding
- Battlespaces persistently surveilled
- Convergence of new technologies
- COVID-19 global disruption
- Terrorism remains a persistent condition

"… we have an ongoing responsibility to provide and maintain a naval force that is always ready to defend our shores, maintain sea control, and protect our national security and economic interests."

SECNAV-Del Toro

Naval Information Warfare Center ATLANTIC

Mission: Serving our Nation by delivering information warfare solutions that protect national security.

IW is one of our Nation's highest defense priorities — as leaders in this warfighting domain, our role in our Nation's defense has never been more critical to future fights.

Vision: Win the Information War

Information warfare solutions includes: C2 systems, communication systems (radios), networking systems (routers/switches), cyber operations (red team/ forensics/network defense), intelligence, surveillance, reconnaissance (sensors/decision support applications), business systems (benefits/personnel) and information security.

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Influencers — Key Guidance

- National Defense Strategy 2022
- Tri-Service Maritime Strategy
- CNO – Navigation Plan 2021
- NAVPLAN Implementation Framework (NIF)
- Charge of Command/Get Real, Get Better
- CMC – 38th CMC Planning Guidance
- Force Design 2030
- DON Unmanned Campaign Framework
- DON CIO – DON Information Superiority Vision
- DON FY-23 Budget
- Signature Behaviors of the 21st Century Sailor
- INCOSE Systems Engineering Vision 2035

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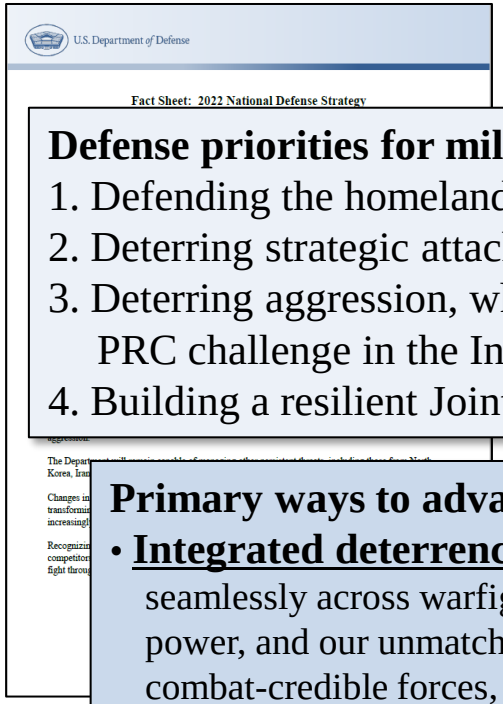
Fact sheet: 2022 National Defense Strategy

NDS, the capstone for how DoD will advance and safeguard vital U.S. national interests –

- **Protecting the American people**
- **Expanding America's prosperity**
- **Realizing and defending America's democratic values**


U.S. Department of Defense

Fact Sheet: 2022 National Defense Strategy

Mutually-beneficial Alliances and partnerships are an enduring strength for the United States, and are critical to achieving our objectives, as the unified response to Russia's further invasion of Ukraine has demonstrated. Answering this "call to action," the Department will incorporate ally and partner

NDS Fact Sheet (defense.gov)

2022 NDS is consistent with the President's Interim National Security Strategic Guidance, released in March 2021.

Defense priorities for military planning and activities:

1. Defending the homeland, paced to the growing multi-domain threat posed by the PRC
2. Deterring strategic attacks against the United States, Allies, and partners
3. Deterring aggression, while being prepared to prevail in conflict when necessary, prioritizing the PRC challenge in the Indo-Pacific, then the Russia challenge in Europe
4. Building a resilient Joint Force and defense ecosystem.

Primary ways to advance Goals:

- **Integrated deterrence** entails developing and combining our strengths to maximum effect, by working seamlessly across warfighting domains, theaters, the spectrum of conflict, other instruments of U.S. national power, and our unmatched network of Alliances and partnerships. Integrated deterrence is enabled by combat-credible forces, backstopped by a safe, secure, and effective nuclear deterrent.
- **Campaigning** will strengthen deterrence and enable us to gain advantages against the full range of competitors' coercive actions. The United States will operate forces, synchronize broader Department efforts, and align Department activities with other instruments of national power, to undermine acute forms of competitor coercion, complicate competitors' military preparations, and develop our own warfighting capabilities together with Allies and partners.
- **Building enduring advantages** for the future Joint Force involves undertaking reforms to accelerate force development, getting the technology we need more quickly, and making investments in the extraordinary people of the Department, who remain our most valuable resource.

An unclassified version of the NDS will be forthcoming and sequenced with the release of the unclassified National Security Strategy

NIWC Atlantic's Strategic Framework

Aligns to Higher Strategic Guidance & NAVWAR Strategic Vector

NAVWAR Strategic Objectives:

Foster a World-class Workforce

Ensure Information Readiness

Lead Naval Digitalization

NIWC Atlantic Goals and Objectives :

Cultivate a Winning Team:

Cultivate a winning workforce rooted in our core values, with a deep understanding and connection of the warfighter and each other.

I. Engage the Workforce in Meaningful Ways
II. Optimize the Workforce
III. Increase Connectedness

Deliver Competitive Advantages to the Warfighter:

Maintain and deliver the most critical information warfare solutions that the warfighter needs to win today, while developing capabilities for the future force.

I. Prioritize Mission Critical Work
II. Deliver Ready, Advanced Naval Solutions, On Time
III. Reimagine Naval Power

Lead in the Digital Age:

Increase our operational velocity, leveraging digital practices and driving data-informed, human driven decisions.

I. Operationalize Digital Practices
II. Lead with Data
III. Invest in Physical and Virtual Capability Accelerators

Naval Information Warfare Center ATLANTIC

NIWC Atlantic At-a-Glance

Major CONUS Locations

Total Facilities: 79 bldgs, 1.36M sq ft

Operational Framework

- Our Navy Working Capital Fund model is directly tied to operational and fleet Priorities and Fleet requirements, providing the ability to pivot and surge on emergent requirements
- We exercise government expertise and oversight across industry partnerships and contractor workforce
- Our technical acumen & utilization of all authorities allows for rapid tech transition to the warfighter -- accelerating, delivering capabilities at the speed of relevance

FY 2021 unless otherwise noted

Navy Working Capital Fund organization. Receive no appropriated funding directly. Operate like non-profit business with "customer – provider" relationship

- $4.02B Total Obligation Authority
- $1.896B Total Small Business eligible dollars
  - 50% SB
  - ~280 SBs
  - 93% Competition
- New Orders
  - 59% Naval
  - 35% Joint
  - 6% Non DOD
- Workforce FTEs
  - 72% Naval
  - 24% Joint
  - 4% Non-DOD
- 4,992 Gov't, 118 Mil ~9K Ctr (Dec. 21)
- 113 New Professionals
- 124 Student Interns
- 15 Senior Scientific Technical Mgrs. (SSTMs)
- Educational Levels (Dec. 21)
  - 1% PhDs
  - 27% Masters
  - 44% Bachelors
- Top Sponsors: 68%
  - NAVWAR & PEOs
  - NAVSEA & PEOs
  - Defense Health
  - MARCORSYSCOM
  - DARPA
- Top Occupational Series: 60%
  - 22% IT Specialist
  - 12% Computer Scientist
  - 11% Electronics Engineer
  - 9% Electronics Tech
  - 7% Mgmt. & Prog. Analyst

Delivering information warfare capabilities to the naval, joint and national warfighter.

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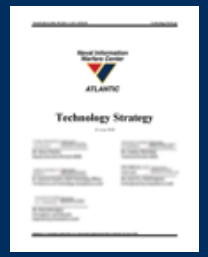
8 Technology Focus Areas to Achieve Technology Goals

Technology Strategy and TFA analysis **drives work acceptance** and lab/facility infrastructure allocations and tools.



Artificial Intelligence: Provide warfighters with analytics-driven, data-informed, and technology-empowered capabilities to drive decision advantages and optimal mission outcomes.

Assured Communications: Addresses the demand for resilient, and sometimes covert, wired and wireless communications in degraded and/or denied environments.

Cloud Computing: IT modernization and digital transformation for resilient infrastructure, platform and software services.

Cybersecurity: Provides protection from unauthorized use of and/or defends electronic data, hardware, software from disruption or of the services they provide.

DevSecOps: Refers to replacing siloed Development, Security and Operations to create multidisciplinary teams that collaborate with shared and efficient practices and tools.

Mobility: Provide Wireless Technology and enterprise access for the warfighter to engage with a mobile environment and applications, anytime, anyplace.

Model-Based Systems Engineering (MBSE): Technologies used to support the development, management and application of virtual constructs of varying fidelity across the spectrum of systems engineering.

On-Demand Manufacturing: Produce products and/or components, when or as they are required at the point of use, using additive and/or traditional manufacturing methods.

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Department and Sponsor Alignment

Delivering within the Full Range of Naval & Joint Operations

Departments	Major Sponsors
Fleet C4I and Readiness Greg Lancaster, SSTM	• PEO C4I/SS – PMW 120 – PMW 130 – PMW 150 – PMW 160 – PMW 170 – PMW 740 – PMW 750/760 – PMW 770 – PMW 790 • FRD • NAVSEA • NAVAIR • USCG • Fleet Cyber • Numbered Fleets
Expeditionary Warfare Ashlee Landreth, SSTM	• MARCORSYSCOM/PEO LS • SOCOM • MCCDC/MCWL • FMF • U.S. Army • U.S. Air Force
Enterprise Systems Brian Ratliff (A)	• PEO MLB Portfolios – My Navy HR IT Solutions Services – Navy ERP / Financial IT Services – Logistics IT Services – Data Transformation Services – Enterprise Systems & Services – Innovation Support Services • Data Center & Cloud Hosting Services • DISA • PEO DES Portfolios – Cyber & Operational Services – Platform Application Services – Infrastructure Services – Digital Workplace Services – End User Hardware Services – SAP Services • Other Navy Business & Enterprise systems
Shore C2ISR and Integration Bruce Carter, SSTM	• Defense Health Agency • Commander, Navy Installations Command • Marine Corps Installations Command • Naval Air Systems Command • Naval Facilities Engineering Command • Defense Logistics Agency Energy
Science and Technology Dr. Suzanne Huerth, SSTM	• Defense Advanced Research Projects Agency (DARPA) • Office of Naval Research (ONR) • Office of the Secretary of Defense (OSD) • Navy Tactical Exploitation of National Capabilities (TENCAP)

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Naval Information Warfare Centers NWCF
Activities operate on a Customer / Provider basis

Navy Working Capital Fund

- Revolving Fund – Pays bills and is reimbursed by customers
- Accepting funds from various sources
- Receive no appropriated funding directly
- Operate like non-profit business with “customer – provider” relationship

Mission Funded

- Receive fund allocations from the Congressional budget to accomplish their mission and pay their expenses
- Organizations funded through appropriations (hence “Mission funded”)

Benefits of NWCF

- NWCF Provides the agility to wane or surge as required for ongoing and emergent needs
- Complimentary skill sets employed to enable, extend and enhance IW solutions
- Continuously pursue high risk tech solutions enabling Naval IW superiority
- Full cost visibility
- Accountability/flexibility
- Cost Sharing
- Emphasis on cost product quality
- Cost stabilization
- Processes promote business acumen
- Customer influence

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Naval Integration Laboratories and Facilities

Driving integration and interoperability into Naval Capabilities

C4I Shipboard Integration Facility

Employs system-of-systems cost effective engineering, acquisition rigor, and integration for the development, delivery, and sustainment of integrated, interoperable, and effective C4ISR, business IT, and space systems to the Navy new construction and Military Sea Lift Command platforms.

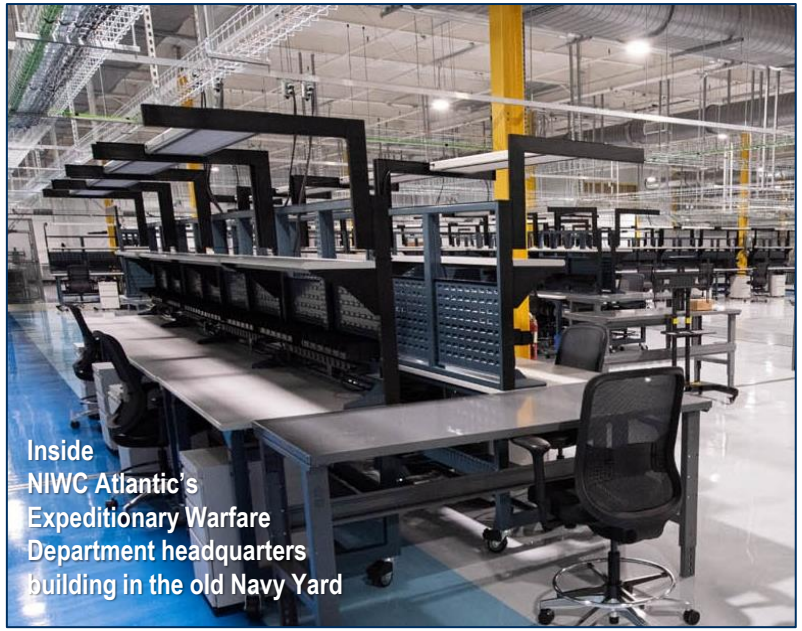
Common Submarine Radio Room

The Navy's only automated radio room that is scalable and delivers common architecture, logistics and training across all five classes of submarines.

Produced and tested within an exact replica of the submarine's radio room, dramatically reducing installation time. This reduced install time was paramount to increasing SSBN operational availability.

Expeditionary Systems Integration and Innovation Center (ESIIC) Bay

Supports faster technology transition to the warfighter. Serves the Navy and Marine Corps as it transitions into an interactive, collaborative, flexible and modernized digital laboratory. Laydown areas for prototyping and design development



Inside NIWC Atlantic's Expeditionary Warfare Department headquarters building in the old Navy Yard

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Cyber and Electronic Warfare and Operations to protect and defend our integrated networks

Strengthening and securing naval systems and networks — More robust, more resilient, more tough

Securing naval systems — More responsive, more resistant to attack — More intuitive — Removing "chance," increase speed to discovery — Increase trust

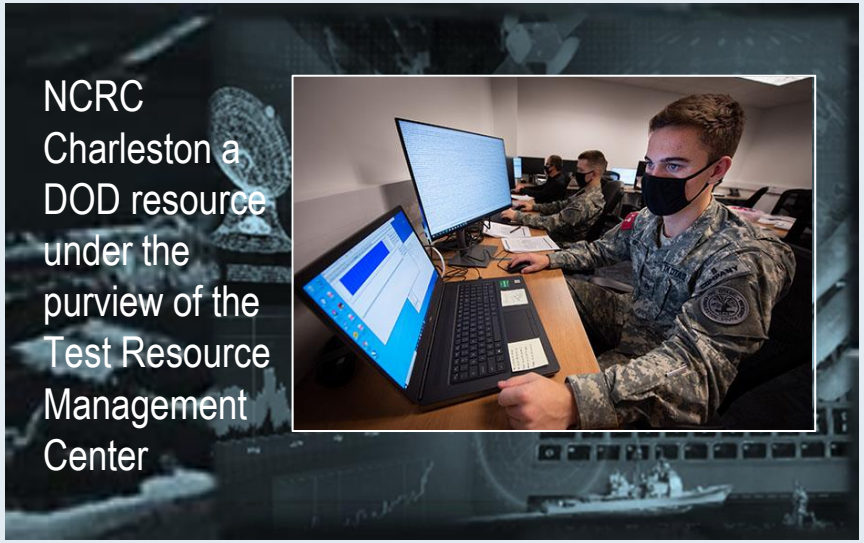
- Support to DIA and DISA for the JWICS network
- SCI and CAP Network infrastructure engineering
- Forensics Lab, the Navy's trusted Agent
- Computer Network Defense Service Provider

Electronic Warfare Innovation/ Execution Lab

SQUIRRELWORKS
Innovation - Execution - Results
Honor Courage Commitment

The National Cyber Range Complex (NCRC) Charleston is a DoD resource that enables us to train like we fight

supports Cyberspace testing, training, mission rehearsals, cyberspace operations, tactics, science and technology demonstrations and forensics/malware analysis



We Bring Non-Kinetic Fires to the Fight

Naval Information Warfare Center ATLANTIC

Delivering globally employed C4ISR systems for operational use, across the Expeditionary Domain

Expeditionary Advanced Base Operations

- **Networking on the Move (NOTM)**
  - provides the Marine Air-Ground Task Force with a robust, over-the-horizon / beyond line-of-sight, digital command and control capability while on-the-move and at-the-halt.
  - NOTM-Ground Combat Vehicle Engineering, Production, Fielding and Cybersecurity
  - Networking and Communications Architecture Development
- **USMC's "Intel Lab"**
  - Marine Corps Systems Command places explicit trust/confidence in NIWC Atlantic's engineering for the vast majority of their Intel systems

We enable freedom of maneuver across all warfighting domains.

Naval Information Warfare Center ATLANTIC

Enterprise IT & Business Systems

Leading Network Modernization and Digital Transformation Across the Naval Enterprise

Enterprise DevSecOps

DevSecOps/shift left — Agile Development/go fast — Continuous ATO — Naval DevSecOps Platform — Marine Corps Business Operations Support Services (MCBOSS)

DON and DOD Enterprise Network Modernization

Marine Corps Enterprise Network (MCEN) — Defense Health Enterprise IT and Software Solutions — Flank Speed — Naval Identity Service — Logistics IT Services — Navy Enterprise Service Desk

Easing Warfighter Challenges at Home and Improving Fleet Readiness at Sea

MyNavyHR — Defense Health Systems

Conceive, Develop and Provide Value

Naval Information Warfare Center ATLANTIC

Decision Intelligence Focus

to turn data into better actions at scale

Using Data for an
Advantage on the Battlefield

Using Data to
Improve DoD Management

Using Data to
Inform Decisions at Any Scale

"The Naval Service will partner, persist, and prevail across the competition continuum employing Integrated All-Domain Naval Power … by expanding information and decision advantage"

– Tri-Service Maritime Strategy

Revolutionize Naval Decision-Making for competitive advantages across our missions

Naval Information Warfare Center ATLANTIC

Urgency to move faster, take advantage of Innovation and Advancing Technologies

"History shows the navy which adapts, learns, and improves the fastest gains and enduring warfighting advantage. The essential element is fostering an ecosystem — a culture — that assesses, corrects, and innovates better than the opposition." --- *Admiral Michael Gilday, Chief of Naval Operations*

A call to action for every Navy leader to apply a set of Navy-proven leadership and problem solving best practices that empower our people to achieve exceptional performance.

CHIEF OF NAVAL OPERATIONS

10 January 2022

The Charge of Command

I wish to have no connection with any ship that does not sail fast; for I intend to go in harm's way. It seems to be a law of nature, inflexible and inexorable, that those who will not risk cannot win.
John Paul Jones, 1778.

Congratulations on achieving the highest honor in the Navy… the opportunity to Command. Your selection is based on proven performance and the Navy's trust and confidence in your ability to develop and contribute to a winning team in accomplishing your command's mission.

Above all, Command, whether at sea or ashore, is fundamentally about preparing for and leading in combat. Never lose sight of this – seize absolute ownership of your assigned mission and all that goes into its accomplishment. When called upon to sail into harm's way, you and your team must be ready. Your command's mission is absolutely essential to the Navy's ability to fight and win. Imbue this belief in your team.

Command at times will be challenging. The challenges facing our nation and our Navy are expansive in their complexity and scale. Success demands that you hold true to the timeless elements of Command, while you continuously learn and adapt to keep pace with a rapidly changing world. You must remain accountable for both action and inaction as well as the outcomes and learning that make your team better. You are ultimately responsible for every aspect of your command.

Be relentless in building a culture of the highest character… a tough, resilient team that wins. Our nation needs and expects their Navy to remain above reproach, as a force they can admire and rely upon. Take fierce pride in this obligation. As the Commander, you are the example your team reflects. Embody humility, selflessness, and complete transparency. Acknowledge the value of every Sailor and civilian. Take care of them and their families. Embrace diversity of thought and background. Foster inclusion and connectedness. Always do the right thing, especially when it is hard. In doing these things, keep close watch on your own mental, physical, and emotional health, and the health of those you lead.

Your integrity and that of your command is the foundation of your warfighting effectiveness. Generate trust through action, both internal and external to your command, and continually assess the level of trust given to you and that you give to others. In the same way, measure the quality and transparency of your communications over those paths. Seek clarity and understanding. Trust and effective communications—absolute necessities in combat—must be developed and perfected in times of peace.

Upon this foundation, keep professional competency as the starting point of every day. We have no room for complacency. Your command must be ready, from basic fundamentals to the most challenging high-end warfighting maneuvers. Provide our adversaries no vulnerability to exploit.

The Charge of Command
CNO's expectations

"History shows the navy which adapts, learns, and improves the fastest gains an enduring warfighting advantage. The essential element is fostering an ecosystem—a culture—that assesses, corrects, and innovates better than the opposition." – *Chief of Naval Operations Michael Gilday*

GET REAL GET BETTER
is a call to action for every Navy leader to apply a set of Navy-proven leadership and problem solving best practices that empower our people to achieve exceptional performance

▸The Navy has teams with great culture and great performance, but we also see examples of teams with poor culture and weak performance. The gap between our best and our worst performers is too great.
▸To remain the world's strongest Navy, we must have consistently strong performance. Get Real Get Better is the formula consistently used by our best performers.
▸This approach empowers our people to find and fix problems – and innovate – at their level, from the deckplate to senior leaders. We reward ownership and ingenuity, and we help each other remove barriers.
▸We are committed to accelerating our warfighting advantage by unleashing our people, not by burdening them with extra requirements, policies, or bureaucracy.
▸Principles here and in the Charge of Command make our Navy more ready for competition and combat.

Every Navy leader must:

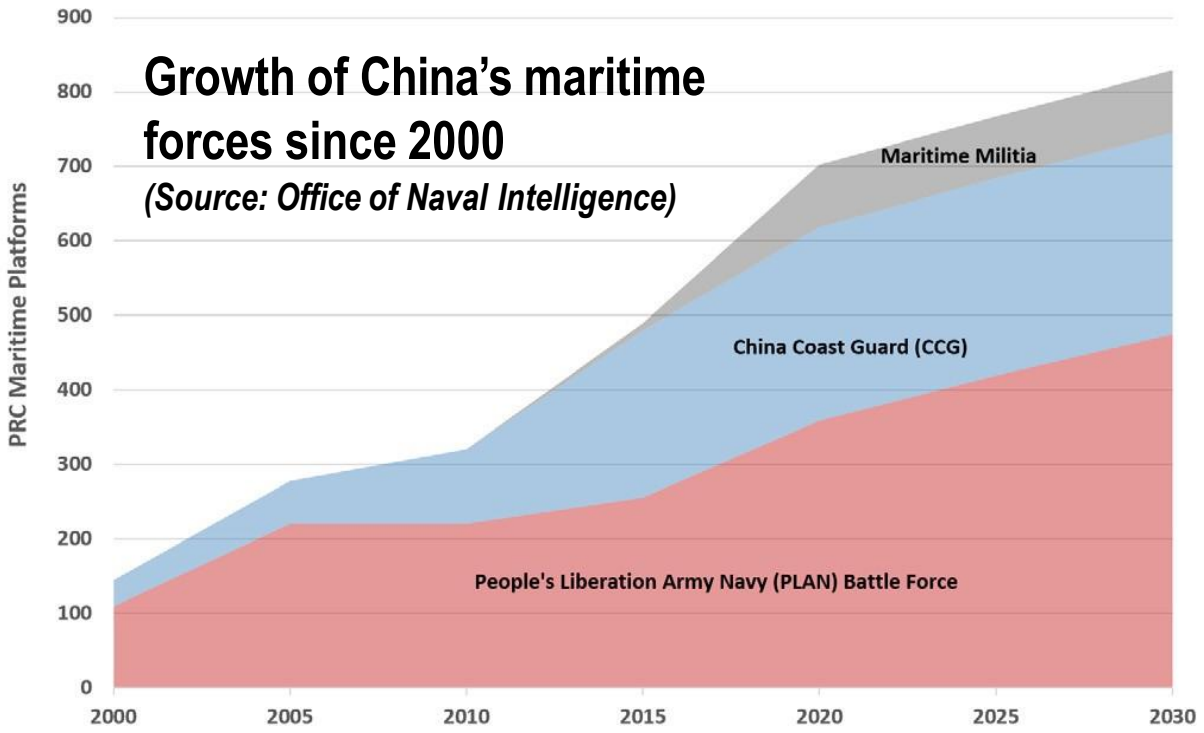
GET REAL
▸Self-Assess. Be your own toughest critic. Continually evaluate yourself and your team. All of us can improve.
▸Be honest, humble, and transparent about current performance. Support others in getting real.
▸Know your actual capabilities and limitations. Challenge your beliefs using data, facts, and diverse input.
▸Embrace the red. Be curious and take pride in fixing problems. We are not a zero defect Navy.

GET BETTER
▸Self-Correct. Continuously fix small problems at the lowest level before they become large issues.
▸Apply Navy problem solving tools and best practices to shift from more activity to better outcomes.
▸Fast and fix the root causes, not just symptoms. Set clear accountability and work collaboratively.
▸Fix or quickly elevate barriers. Measure yourself on creating opportunities for your team to progress.

…USING A LEARNING MINDSET…
▸Be a "learn-it-all" vice "know-it-all". Transparently share what you learn to make others more successful.
▸Be courageous; aim high even if you may fall short. When you miss, come back smarter than before.
▸Build trust. Honor and reward the value of each member of your team. Recognize others who support you.
▸Experiment frequently to find the best solution. Adjust your plan based on learning.

Get Real Get Better training, support materials, and communication products continue to be developed. See www.navy.mil for available resources.

Get Real Get Better
CNO's call for action



Naval Information Warfare Center ATLANTIC

Collaborate — Innovate — Go Fast

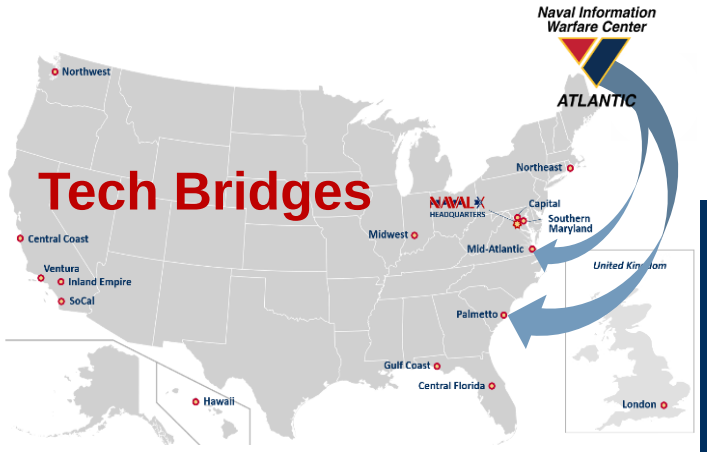
IWRP Advancing Naval Information Warfare Through Rapid Prototyping on a Global Scale

Mission to foster collaboration between Government, Industry and Academia to identify, develop and demonstrate the enabling technologies necessary to enhance the Navy and Marine Corps mission effectiveness in the field of Information Warfare.

- **$1B Total Approved Ceiling**
- **125 Prototypes ($410.4M) awarded as of 4/1/2022**
  - 61% (76 out of 125) awarded to Nontraditionals
- **13 Production ($637.5M) awarded as of 4/1/2022**
- **$3.3M Average Prototype Award**
- **51 Industry Day & CMF Events**

NavalX serves as DON workforce "super connector," focused on scaling nontraditional agility methods across the regional and DON workforces to solve dual-use technical challenges.

The approach is to connect to pockets of excellence to capture and scale the methodologies being employed, increasing awareness of cross-DoD and external successes, lessons learned, and subject matter experts.



Regional naval innovation ecosystems centered around the NIWC Atlantic labs that support greater collaboration with academia, States, and industry on projects with Naval Information Warfare relevance

News Story:
Colleagues, Partners of NIWC Atlantic Called to 'Front Lines' of Cyber – NIWC Atlantic (navy.mil)

Naval Information Warfare Center ATLANTIC

Advanced Naval Technology Exercises

- Ship to Shore Maneuver Exploration and Experimentation (S2ME2)
  - FVT, FET, 2 projects in attendance
- Urban 5th Generation Marines (U5G)
  - FVT, FET, 4 projects in attendance, 2 Focus Area Leads (C2, UxS), 25 people
- Fight the Naval Force Forward (FNFF)
  - West – 2 Focus Area Leads (C2, UxS), 15 Assessors
  - East – Huge support, 10 projects, 3 Focus Area Leads (C2, Comms, UxS), 50+ engineers, 15 assessors
- Naval Integration in a Contested Environment (NICE)
  - NR&DE Lead, FVT, FET, Commercial Solutions Opening (CSO), 9 projects, 4 Focus Area Leads
- AINet ANTX
  - Identify, develop, assess, and integrate Science and Technology (S&T) in support of project Overmatch (OM)
- Cyberspace Defense in Denied, Degraded and Disconnected Environments ANTX
  - Develop technology informed TTPs to support afloat operators from ashore

Naval Information Warfare Center ATLANTIC

The Economic Impact of NIWC Atlantic

Moore School of Business economic study Sept. 2019

NIWC Atlantic in Charleston, SC

- $2.5 billion total economic activity
- $1.1 billion labor income for SC
- 16,834 jobs
  - Average annual wage $63,298
    - 47% above state average
- ~ 65% of workforce employed in scientific and computer related professions, largest category Engineers
  - Employs 78.2% of all electronics engineers in the CHS region, 28.2% in SC
  - 64.1% of workforce is engaged with aspects of cybersecurity,
    - 33% of the CHS cybersecurity sector
- Defense contractors serve as the primary supply chain for NIWC Atlantic
  - Contractors report that 58.5% of their total business operations are tied to NIWC Atlantic

NIWC Atlantic impact in the U.S.

- $6.8 billion total economic activity
- $2.8 billion in labor income
- 39,202 jobs

Largest Economic Impacts outside of SC	
Virginia	$1.2B
Maryland	$125.3M
Louisiana	$108.9M
Florida	$65.7M
Washington, DC	$59.1M

NIWC Atlantic serves as a critical element of Charleston's economy and will continue to be key ingredient for Charleston's future economic development.

Naval Information Warfare Center ATLANTIC

Cultivating the Next Workforce & Engaging with our Communities

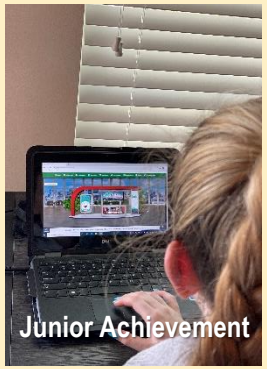
4th YEAR! Winner Best Place to Work!
1st Year Best Engineering Firm
The Post and Courier CHARLESTON'S choice

Cultivating the Next Workforce & Engaging with our Communities

- Career Fairs
- Robotics
- GIS
- Palmetto Cyber Summer Camp
- Girls Day Out Summer Camp
- STEM Mobile Apps
- Summer Interns

FY21 Community Impact & Volunteerism

- 80,000+ Students Served
- 300+ Volunteers
- 1,500+ Total Hours*
- 119 First Robotics Teams
- 11 Educational Partnership Agreements



22 hires from our STEM programs *(Aug. 21)*

BSA Engagement — Career & Science Fairs — Cyber Defense Competitions — Cybersecurity Summer Camp — FIRST Robotics Leagues — Geospatial Information Systems (GIS) — Girls Day Out — Groundhog Shadow Day — Feed the Feds Food Drive — Habitat for Humanity — Virtual Job Shadows – Junior Achievement — Lowcountry Youth Services — Navy Family Services — PI Day — SeaPerch — Splash into Summer — STEM Camps & Festivals — STEM Mobile Apps — Student Internships — Toys for Tots Campaign — Trident Day of Caring — VA Homeless

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Return to the Workplace

- We will not be making rapid changes to onsite work presence
- We will ensure our plan is in alignment with DoD and Naval policy and guidance but also make full use of local authorities provided by these policies and guidance (telework waivers, remote duty station, etc.).
- We will create a return to work plan that ensures we continue to meet mission requirements while maximizing telework to the fullest extent possible.
- We will ramp-up onsite presence to enhance connectedness/team-building while retaining workforce flexibility.

What we know today

- NAVWAR Telework policy for all employee to be scheduled in the worksite a minimum of two times per pay period will be reinstated on 24 Apr 2022
- NIWC Atlantic's ED has authority (can be delegated one level) to grant temporary waivers based on COVID hardship
- NAVWAR is planning on issuing Local Remote Guidance sometime late Apr 2022

What we are doing today

- Bringing the workforce back into the workplace for intentional purposes
- Processing temporary telework waivers
- Adjusting employee reporting schedule based on mission needs

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COVID-19
DOD and CDC Guidance

- Consolidated DOD COVID Guidance releases into one document 04 April
  - Document can be updated by section as needed
- DOD using CDC COVID-19 Community Levels to promulgate precautions
  - Community Levels determined weekly by county using:
    - Hospital beds being used for COVID
    - COVID hospital admissions
    - New COVID Cases
- Physical Distancing required as best possible regardless of CDC Community Level

LOW	▪ Masking **NOT** required on DOD spaces ▪ Testing **NOT** required for unvaccinated personnel for onsite presence ▪ DOD sponsored meetings over 50 personnel allowed without SECNAV approval
MEDIUM	▪ Masking **NOT** required on DOD spaces ▪ Testing **IS** required for unvaccinated personnel for onsite presence ▪ DOD sponsored meetings over 50 personnel allowed without SECNAV approval
HIGH	▪ Masking **IS** required on DOD spaces ▪ Testing **IS** required for unvaccinated personnel for onsite presence ▪ DOD sponsored meetings over 50 personnel requires SECNAV approval; includes vaccination/negative test verification

Current Community Transmission Levels:

- San Diego CA- LOW
- Washington DC- LOW
- Pentagon- MEDIUM
- Mayport FL- LOW
- Tampa FL- LOW
- New Orleans LA- LOW
- Patuxent River MD- LOW
- Ft Bragg NC- LOW
- Camp Lejeune NC- LOW
- Charleston SC- LOW
- NS Norfolk VA- LOW
- St Juliens Creek VA- LOW
- JEBLCFS VA- LOW
- New London CT- LOW

Naval Information Warfare Center ATLANTIC

Serve our Nation by delivering information warfare solutions that protect national security.

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Web: https://www.niwcatlantic.navy.mil — Facebook: https://www.facebook.com/NavalInformationWarfareSystemsCommand

Twitter: https://twitter.com/navwarHQ — Instagram: https://www.instagram.com/navwar_usnavy/ — LinkedIn: https://www.linkedin.com/company/navwar/

Employment opportunities: https://www.usajobs.gov/ — NIWC Atlantic Small Business: https://www.niwcatlantic.navy.mil/for-industry/

NAVWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil

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Questions ?

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Naval Information Warfare Center Atlantic

2.0 Contracts Competency and Industry Forecast Update

Charleston Defense Industry Association
60th Small Business and Industry Outreach Initiative Symposium

20 April 2022

Mr. Steve Harnig
NIWC Atlantic
2.0 Contracts Competency Director

Naval Information Warfare Center ATLANTIC

Overview

- Opening Remarks
- Contract Metrics
- Contract Strategy
- Non-FAR Tools
- Industry Forecast Report
- Questions

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Contract Metrics

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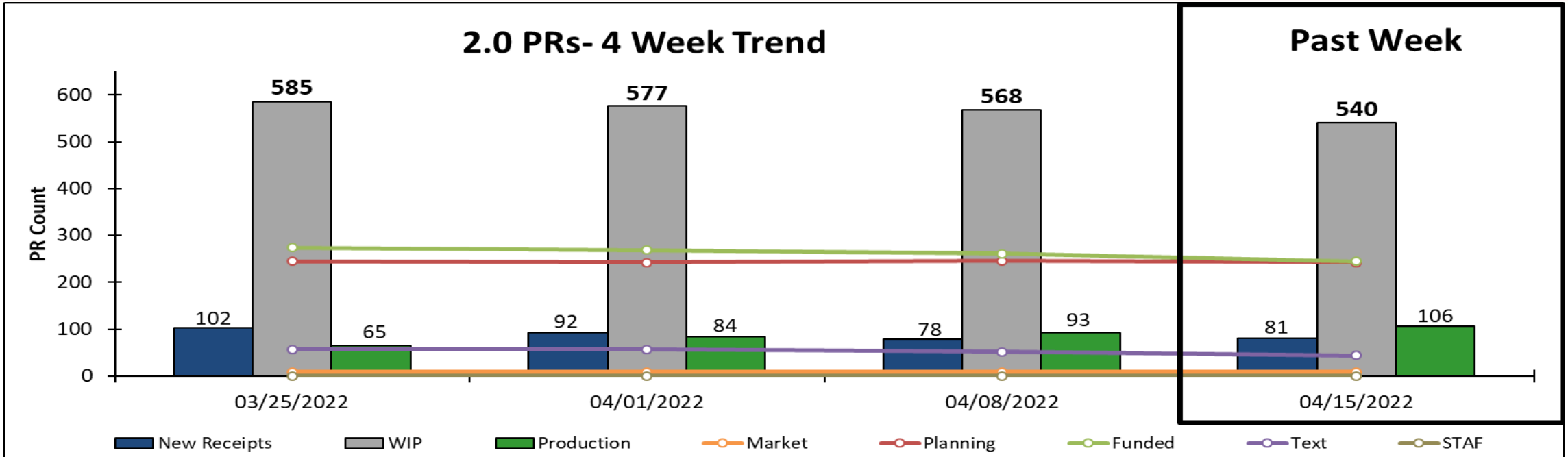
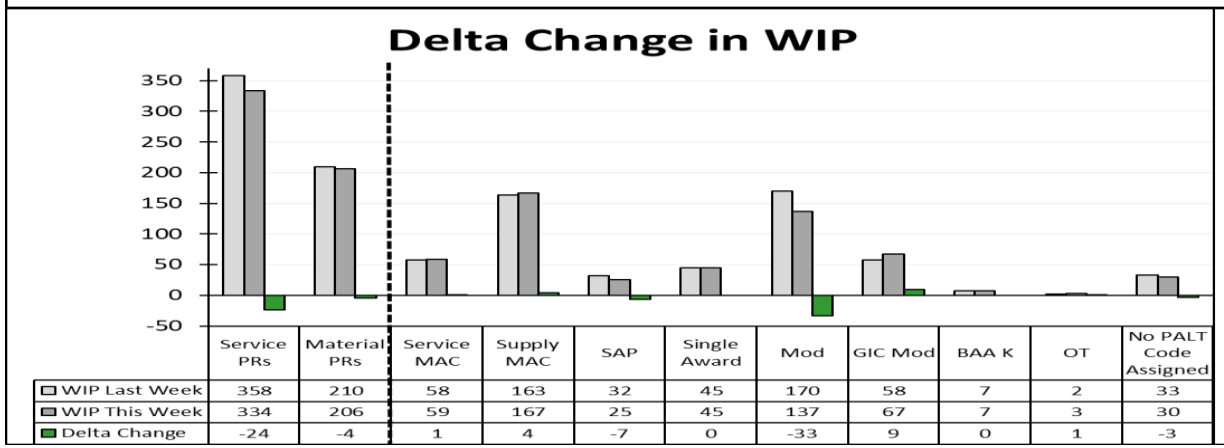
Trending

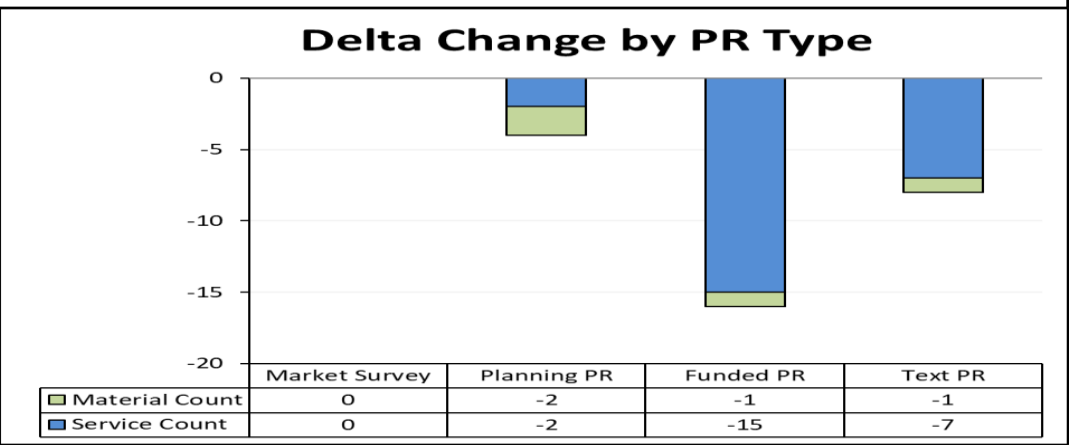
New Receipts		
(Need By Date vs. Advertised PALT)		Delta Change
On Time	74%	↔
Late	22%	↔
Unknown	4%	↔

Production		
Due Date	On Time	Delta Change
Need By Date	74%	▼
EAD (PALT)	74%	▼





	Service PRs	Material PRs	Service MAC	Supply MAC	SAP	Single Award	Mod	GIC Mod	BAA K	OT	No PALT Code Assigned
WIP Last Week	358	210	58	163	32	45	170	58	7	2	33
WIP This Week	334	206	59	167	25	45	137	67	7	3	30
Delta Change	-24	-4	1	4	-7	0	-33	9	0	1	-3



	Market Survey	Planning PR	Funded PR	Text PR
Material Count	0	-2	-1	-1
Service Count	0	-2	-15	-7

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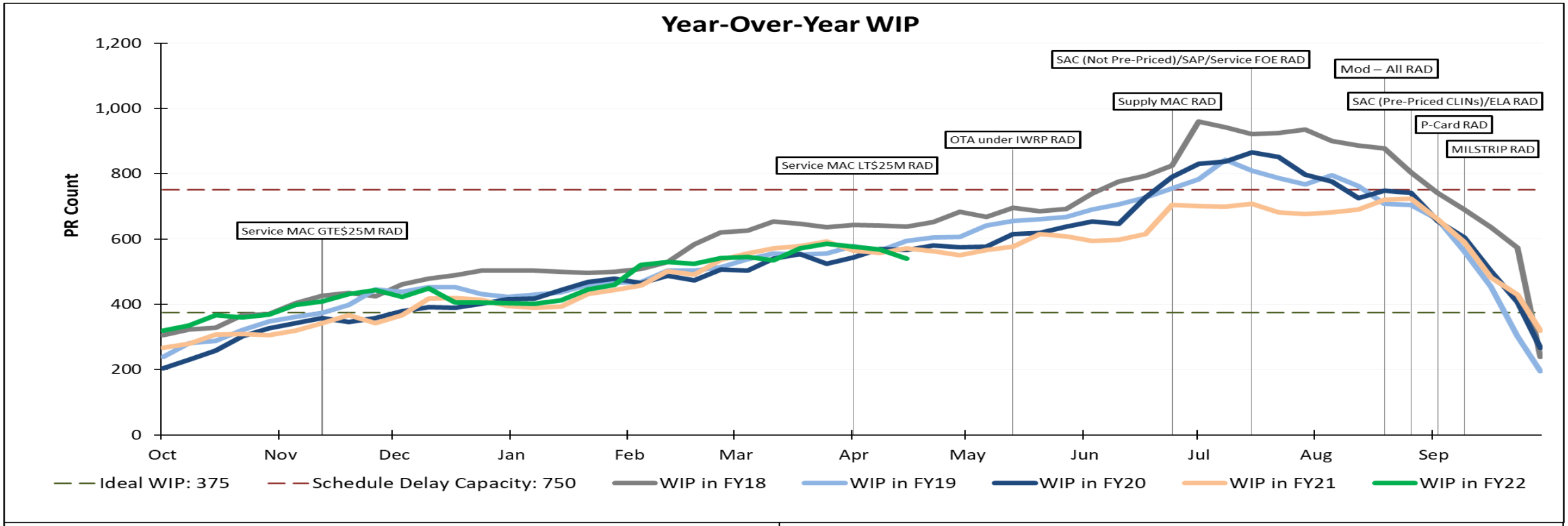
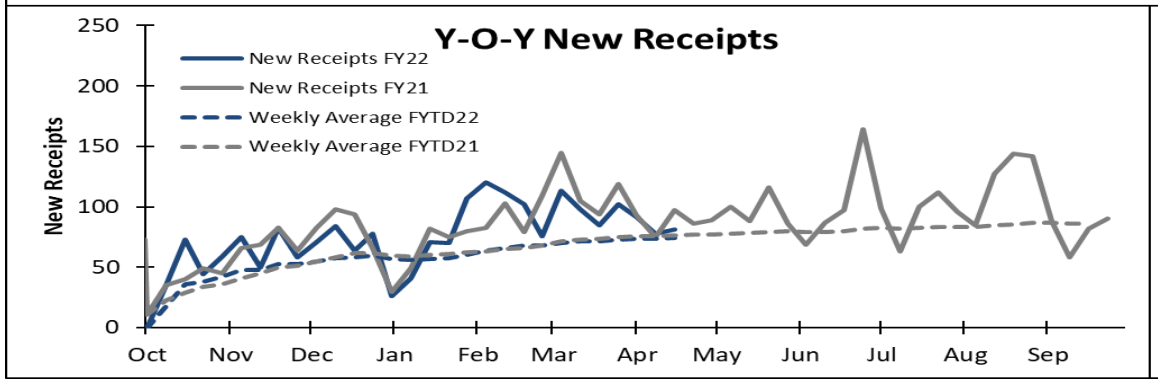
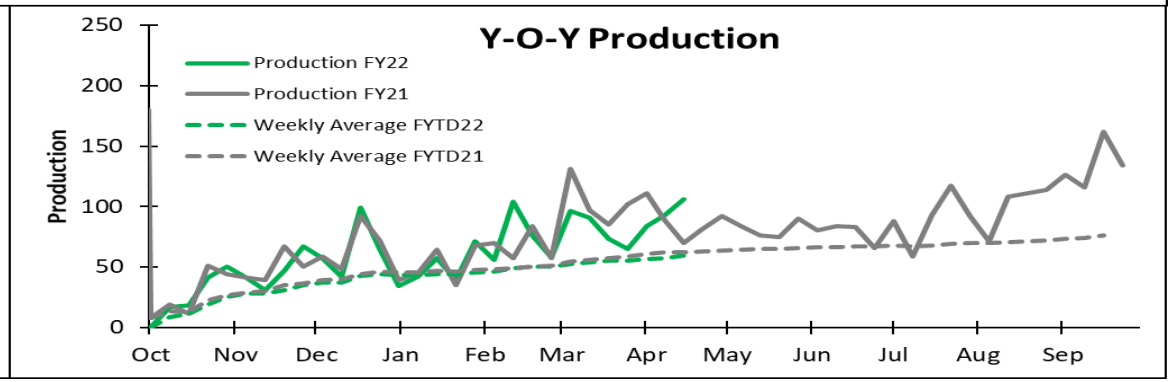
Year-Over-Year, Capacity, and Forecast







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Contract Strategy

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NIWC Atlantic Contract Strategy

SERVICES
General, Corporate Resources/Niche
Service Contracts, Specialized/Complex

- General Services → External Contract Vehicles – SEAPORT/ITES (S)
- NIWC Atlantic Corporate Resources and Niche → 8a Incubator, DARA, ATC, GIC, AATS , etc…
- TS and Above Services & Specialized/Complex Services → Cyber Mission Engineering, MBAS and Corporate Ops

SUPPLIES
General, Corporate Resources/Niche
Supply Contracts, Specialized/Complex

- General Supplies → SEWP/ITES (H)/GSA
- NIWC Atlantic Corporate Resources and Niche → IC/IVCS, etc…
- Specialized/Complex End Item Deliverables → Cyber Mission Systems, Corporate Production, and TTL

OTHER TRANSACTION AUTHORITY

NIWC Enterprise OTA for
Rapid Innovation, Prototyping and Fielding

IWRP INFORMATION WARFARE RESEARCH PROJECT CONSORTIUM

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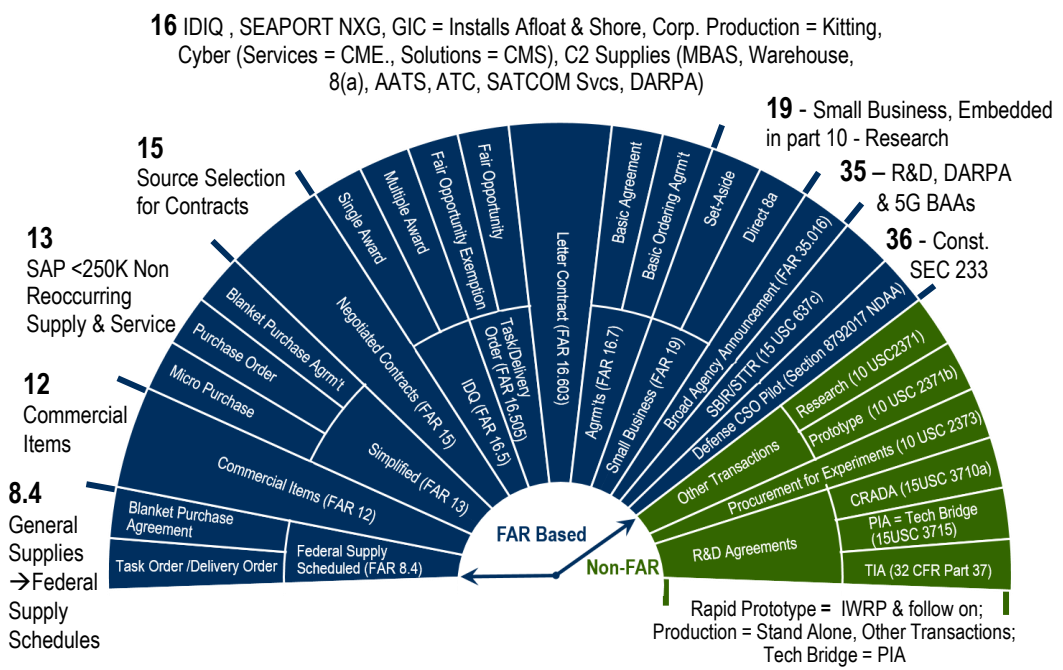
Contract Strategy

Requirements
Depts. and Mj. Sponsors

- **Fleet C4I and Readiness**
  - PMW 120
  - PMW 130
  - PMW 160
  - PMW 170
  - PMW 740
  - PMW 750/760
  - PMW 770
  - PMW 790
  - FRD
  - NAVSEA
  - NAVAIR
  - USCG
  - Fleet Cyber
  - Numbered Fleets
- **Expeditionary Warfare**
  - MARCORSYSCOM
  - SOCOM
  - HQMC
  - PEO Land Systems
- **Enterprise Systems**
  - PEO MLB
    - PMW 150 PMW 220
    - PMM 230 PMW 240
    - PMW 250 PMS 444
  - PEO DES
    - PMW 205 PMW 280
    - PMW 260 PMW 290
    - PMW 270
  - NAVSEA
  - DISA
  - Numerous small DON projects
- **C2ISR & Shore Integration**
  - Defense Health Agency
  - Commander, Navy Installations Cmd.
  - Marine Corps Installations Command
  - Naval Air Systems Command
  - Naval Facilities Engineering Command
  - Defense Logistics Agency Energy
- **Science & Technology**
  - Defense Advanced Research Projects Agency (DARPA)
  - Office of Naval Research (ONR)
  - Office of the Secretary of Defense (OSD)
  - Navy Tactical Exploitation of National Capabilities (TENCAP)

Solutions Supporting the Departments and Competencies



Requirements
Competencies

- **1.0 Finance:** MBAS
- **2.0 Contracts:** Corporate Operations
- **3.0 Office of Counsel:** N/A
- **4.0 Log. & Life Cycle Engr.**
  - 4.1 Sustainment Engr. & Fleet Support
  - 4.3 Install. Planning & Execution - GIC
  - 4.5 Supply Chain Mgmt/Accountable Property – AbilityOne Warehousing Contract
  - 4.6 IPS & Reliability Engineering
  - 4.7 Production, Quality & Mfg. Engr. – Corporate Production
- **5.0 Engineering**
  - 5.2 System of Systems Engineering
  - 5.4 Software Engineering
  - 5.5 Communications & Networks
  - 5.6 Data Science & Analytics – TBD
  - 5.9 Mission Assurance – ISSS Contract
- **6.0 Prog. & Proj. Mgmt.:** MBAS
- **7.0 Science & Technology:** SEWP and GSA
- **8.0 Corp. Ops:** Command Ops.

MAC
Repetitive
Competitive
↓
Independence
↓
TASKS
↑
Integrally related
↑
SAC
Agility

Contract Strategy supports Technical Focus Areas Developing today for the warfighter needs of tomorrow and beyond.

- **Artificial Intelligence:** 5.6 is the Command lead. Strategy is to JAIC contract vehicles to acquire specialized skills in this TFA.
- **Assured Communications:** 5G BAAs and IWRP OTs
- **Cloud Computing:** Our primary strategy for stand alone Cloud services is to utilize the HQ Cloud BPA. Owner in the command is 5.4/5.5. Dec 2020 Navy Cloud Policy coming out of ASN RDA/DON CIO - prohibition on buying cloud services as part of a larger systems integration or support services contract - We can issue orders against any of the existing cloud vehicles, but we'd have to get PEO Digital's approval if we wanted to issue our own solicitation for a new vehicle.
- **Cybersecurity:** Provides protection from unauthorized use of and/or defends electronic data, hardware, software from disruption or of the services they provide. Appropriate to acquire cybersecurity embedded in most of our acquisitions. Historically we have had a Cyber services contract (CME) and a Cyber solutions contract (CMS). Do we need to continue those? Owner in the command is 5.9 – developing there own support contract action.
- **DevSecOps:** Refers to replacing siloed Development, Security and Operations to create multidisciplinary teams that collaborate with shared and efficient practices and tools. Many times these services are embedded in bigger contract actions as well. Strategy could change to modular contracting if the requirements are separated into their own action (small and more agile – iterative). Owner in the command is 5.4.
- **Mobility:** Provide Wireless Technology and enterprise access for the warfighter to engage with a mobile environment and applications, anytime, anyplace. Owner in the command is 5.5. 5G BAAs?
- **Model-Based Systems Engineering (MBSE):** Technologies used to support the development, management and application of virtual constructs of varying fidelity across the spectrum of systems engineering. Appropriate to acquire as an embedded requirement in other actions. 5.2 is the owner for the command.
- **On-Demand Manufacturing:** Produce products and/or components, when or as they are required at the point of use, using additive and/or traditional manufacturing methods. 4.7 is the owner for the Command. Corporate Production or CMS strategy?

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Managing Contract Strategy for the Future

- Information Warfare Research Project (IWRP) 2
- Command Strategy
  - Ensure Contract Strategy supports Technical Strategy
    - 5G, Cloud, MBSE, DEVOPS, and NC3
- Category Management
  - Common goods/services vs DoD-centric
  - Best In Class (BIC) – Tier 3
  - SeaPort – Agency-wide Tier 1 Solution
- Req't to Consider SeaPort (NMCARS 5237)
  - To satisfy competitive service requirements
  - D&F required to negate use of SeaPort
  - >SAT; limited exceptions
- SAC vs MAC
  - D&F required to award single source task/delivery order contract >$100M (HQ)
- Outsourcing due to Budget Constraints
- Sea Enterprise GIC Administration

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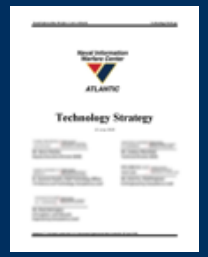
8 Technology Focus Areas to Achieve Technology Goals

Technology Strategy and TFA analysis **drives work acceptance** and lab/facility infrastructure allocations and tools.



Artificial Intelligence: Provide warfighters with analytics-driven, data-informed, and technology-empowered capabilities to drive decision advantages and optimal mission outcomes.

Assured Communications: Addresses the demand for resilient, and sometimes covert, wired and wireless communications in degraded and/or denied environments.

Cloud Computing: IT modernization and digital transformation for resilient infrastructure, platform and software services.

Cybersecurity: Provides protection from unauthorized use of and/or defends electronic data, hardware, software from disruption or of the services they provide.

DevSecOps: Refers to replacing siloed Development, Security and Operations to create multidisciplinary teams that collaborate with shared and efficient practices and tools.

Mobility: Provide Wireless Technology and enterprise access for the warfighter to engage with a mobile environment and applications, anytime, anyplace.

Model-Based Systems Engineering (MBSE): Technologies used to support the development, management and application of virtual constructs of varying fidelity across the spectrum of systems engineering.

On-Demand Manufacturing: Produce products and/or components, when or as they are required at the point of use, using additive and/or traditional manufacturing methods.

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Non-FAR Tools

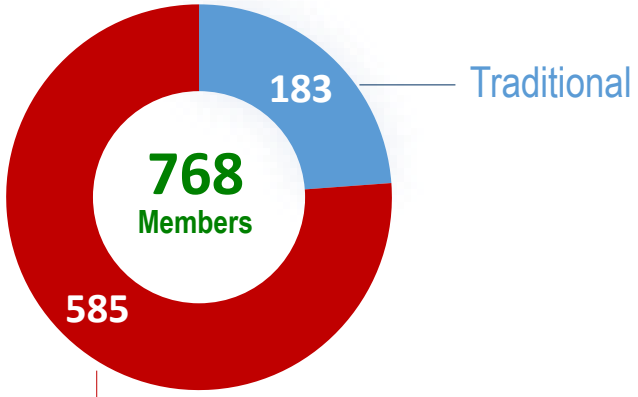
Information Warfare Research Project (IWRP)

IWRP Advancing Naval Information Warfare Through Rapid Prototyping on a Global Scale

Mission to foster collaboration between Government, Industry and Academia to identify, develop and demonstrate the enabling technologies necessary to enhance the Navy and Marine Corps mission effectiveness in the field of Information Warfare.

Consortium Membership Spans 42 States

Since Oct FY19 1400+ Structured collaboration engagements between industry and the government Become a member https://www.theiwrp.org



76% Nontraditional Industry base allows access to move innovative capabilities

$1B
Total Approved Ceiling

125 Prototypes ($410.4M)
Awarded as of 4/1/2022

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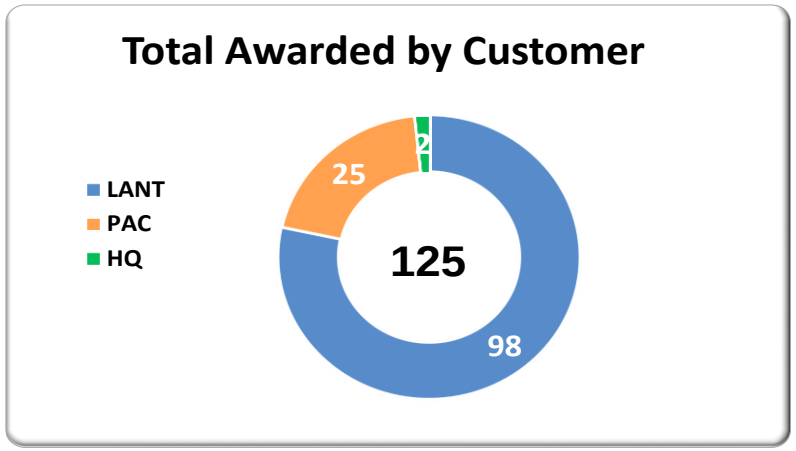
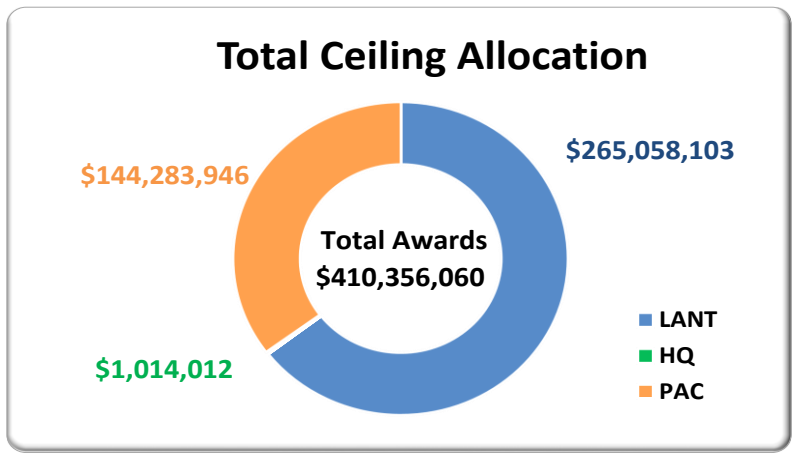
61% (76 out of 125)
Awarded to Nontraditionals

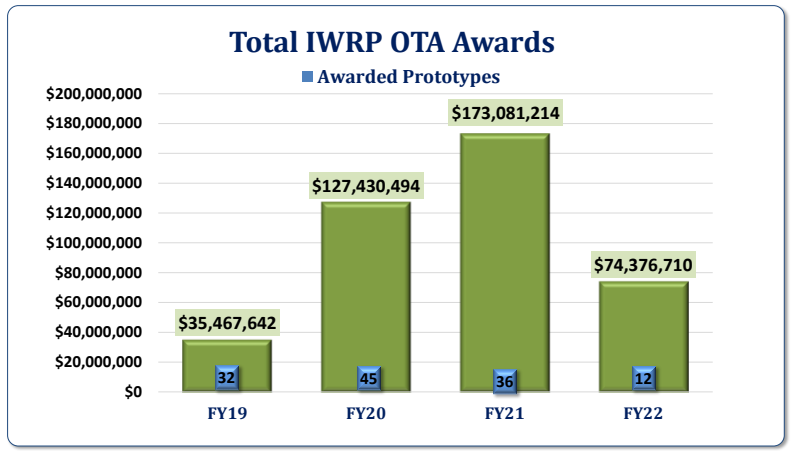
$3.3M
Average Prototype Award

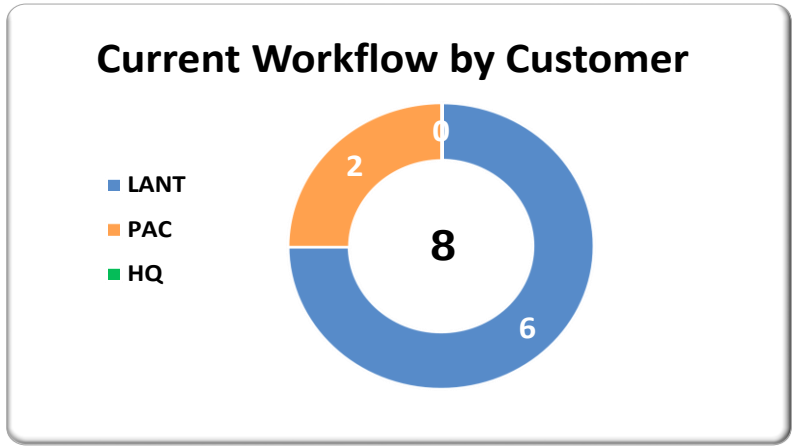
51
Industry Day & CMF Events

FY19-22 IWRP Execution









$1.047M **awarded since inception**

$1B
Total Approved Ceiling

125 Prototypes ($410.4M)
Awarded as of 4/1/2022

13 Production ($637.5M)
Awarded as of 4/1/2022

61% (76 out of 125)
Awarded to Nontraditionals

$3.3M
Average Prototype Award

51
Industry Day & CMF Events

Naval Information Warfare Center ATLANTIC

IWRP Compared to Other Navy Consortiums

IWRP INFORMATION WARFARE RESEARCH PROJECT CONSORTIUM

IWRP – NAVWAR (April 2022)

- 125 Prototype Awards
- $410.4M Ceiling Awarded
- Average $3.3M
- $637.5M Awarded in follow on Production

NSTIC – NSWC Dahlgren (April 2022)

- 36 Prototype Awards
- $368.8M Ceiling Awarded
- Average $10.2M

UTIC – NSWC Newport (April 2022)

- 70 Prototype Awards
- $365.9M Ceiling Awarded
- Average $5.2M

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Commercial Solutions Opening (CSO)

- Commercial Solutions Opening: Originally started as a pilot program and was made permanent with 2022 legislation. It is available to quickly access innovative commercial technologies. It offers simplified contract terms and fast-track vendor selection timelines to attract start-up companies and those new to the Federal marketplace.
- NIWC Atlantic CSOs:
  - NICE ANTX – evaluation complete – working awards
  - Navy e-GRC Tools - currently in evaluation
  - Cyber ANTX – recently closed and in initial evaluation – demonstrations to be in Sept.
  - 3 Path MONTE (Optical) ANTX – should be released in next couple of weeks – demonstrations to be in August (planned)

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2373 Authority

- Beginning use of the USC 2373 authority to procure items for experimentation purposes. Can buy equipment in limited quantities for experimental purposes for certain technical areas.
  - "The Secretary of Defense and the Secretaries of the military departments may each buy ordnance, signal, chemical activity, transportation, energy, medical, space-flight, and aeronautical supplies, including parts and accessories, and designs thereof, that the Secretary of Defense or the Secretary concerned considers necessary for experimental or test purposes in the development of the best supplies that are needed for the national defense."
- To use this authority, you will need to provide a description of the need for these supplies for experimental/test purposes, including, most importantly " the warfighting capability gap being addressed, in the Form of a Determination and Findings (D&F)."

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Industry Forecast Report

Naval Information Warfare Center ATLANTIC

Naval Information Warfare Center Atlantic

Fleet C4I and Readiness (PMW 100s and 700s)

Division 221

Todd Rollins

Naval Information Warfare Center ATLANTIC

Fleet C4I and Readiness Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Fleet C4I & Readiness - Battlespace Awareness Division (PMW 120)	1300977110	>=$50M, <$100M	Cyber Mission Engineering	Aug-22	TBD	CCOP and ASE Engineering Support
Fleet C4I & Readiness - Battlespace Awareness Division (PMW 120)	1300989666	>=$10M, <$50M	Seaport NxG	Oct-22	TBD	Joint Tactical Terminal (JTT) In-Service Engineering Agent (ISEA) and System Operability Verification Testing (SOVT) Support
Fleet C4I & Readiness - IA & Navy Cyber Security Division (PMW 130)	1300887921	>=$10M, <$50M	Seaport NxG	Aug-22	TBD	Crypto and KM Systems Engineering and ISEA
Fleet C4I & Readiness - IA & Navy Cyber Security Division (PMW 130)	1300914863	>=$50M, <$100M	Seaport NxG	Jan-23	TBD	Computer Network Defense: RDT&E, Production Engineering, Integration, Sustainment, and IPT Support for Logistics Services
Fleet C4I & Readiness - Navy Afloat Network and C2 Applications Division (PMW 150/160)	1300969238	>=$50M, <$100M	Seaport NxG	Jan-23	TBD	PEO C4I Systems, Technical, Sustainment and Software Engineering Life Cycle Management (LCM)

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Fleet C4I and Readiness Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Fleet C4I & Readiness - Navy Afloat Network and C2 Applications Division (PMW 150/160)	1300938389	>=$50M, <$100M	Seaport NxG	Sep-22	TBD	Tactical Networks (TACNET) Technical and Production Support
Fleet C4I & Readiness - Navy Afloat Transport & Navigation Division (PMW 170)	1300932895	>=$10M, <$50M	Seaport NxG	Jun-22	UNRESTRICTED	SOFTWARE DEFINED RADIO SOLUTIONS (SDRS) INTEGRATED PRODUCT TEAM (IPT) TECHNICAL SUPPORT
Fleet C4I & Readiness - Shore C4I Integration Division (PMW 790)	1300963954	>=$50M, <$100M	Seaport NxG	Jun-22	TBD	Shore Networks (ShoreNet) Capability-Based In-Service Engineering Activity (CB-ISEA) Support
Fleet C4I & Readiness - Shore C4I Integration Division (PMW 790)	1300949920	>=$50M, <$100M	Seaport NxG	Jun-22	TBD -may result in more than one order	Shore C3 and Naval Messaging Systems Engineering, Lifecycle Sustainment and Capability Based In Service Engineering Activity Support
Fleet C4I & Readiness - Submarine Integration Division (PMW 770)	1300967756	>=$10M, <$50M	Seaport NxG	Jun-22	TBD	Afloat Sub C4I IPT Technical Support Services

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Fleet C4I and Readiness Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Fleet C4I & Readiness - Submarine Integration Division (PMW 770)	1300954507	>=$50M, <$100M	Seaport NxG	Jan-23	TBD	Multi-Reconfigurable Training System (MRTS) - C4I Software Engineering, Training, Curriculum Development and Logistics Support
Fleet C4I & Readiness - Surface Ship Integration Division (PMW 750/760)	1300970522	>=$10M, <$50M	Seaport NxG	Jun-22	TBD	Cooperative Engagement Capability (CEC) & Communications As A Service (CASSS) Cybersecurity Support

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Naval Information Warfare Center Atlantic

Expeditionary Warfare/ Enterprise Systems/Non-Department

Division 222

Erica Smoak

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Expeditionary Warfare (ExW) Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Expeditionary Warfare - Expeditionary Command, Control & Communications Solutions (EC3S)	1300980100	>=$10M, <$50M	Seaport NxG	May-22	TBD	MAGTF C2 Services & Applications (MC2SA) Management Support
Expeditionary Warfare - Expeditionary Command, Control & Communications Solutions (EC3S)	1300938848	>=$50M, <$100M	Seaport NxG	Apr-22	UNRESTRICTED	Command & Control Situational Awareness (C2SA) Lifecycle Systems Support
Expeditionary Warfare - Expeditionary Command, Control & Communications Solutions (EC3S)	1300988058	>=$10M, <$50M	Seaport NxG	Jul-22	TBD	MC2SA Sustainment Support
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300966054	>=$10M, <$50M	Seaport NxG	Dec-22	TBD	USMC Logistics Analysis Support
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300966055	>=$10M, <$50M	Seaport NxG	Jul-22	TBD	USMC Intelligence Training and Systems Support

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Expeditionary Warfare (ExW) Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300960647	>=$10M, <$50M	Cyber Mission Systems, Kitting, and Supplies (CMS)	Mar-22	SBSA	Communications Emitter Sensing and Attacking System (CESAS) Technical Support
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300951434	>=$10M, <$50M	Cyber Mission Engineering	Apr-22	TBD	Terrestrial Collection Identity Operations (TCIO) IPT PM/ENG/LOG Support to Classified Projects
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300951435	>=$10M, <$50M	Seaport NxG	Aug-22	TBD	Logistics Services Support Terrestrial Collection Identity Operations (TCIO) IPT Projects
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300951436	>=$10M, <$50M	Seaport NxG	Nov-22	TBD	PM/ENG/LOG Support to Non-Naval Biometrics in Terrestrial Collection Identity Operations (TCIO) IPT
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300951437	>=$10M, <$50M	Seaport NxG	Jun-23	TBD	USMC Identity Operations Engineering & Logistics Support Services

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Expeditionary Warfare (ExW) Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300877224	>=$100M, <$250M	Seaport NxG	May-22	UNRESTRICTED	Intel Analysis
Expeditionary Warfare - Expeditionary Intelligence Solutions (EIS)	1300930030	>=$50M, <$100M	SeaPort NxG	Aug-23	TBD	Green Force Tracking (GFT) Field Services Representative (FSR) and Technical Support
Expeditionary Warfare - Expeditionary Command, Control & Communications Solutions (EC3S)	1300988481	>=$10M, <$50M	Seaport NxG	Jul-22	SBSA	MC2SA Engineering Support

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Enterprise Systems (ES) Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
ENTERPRISE SYSTEMS - Enterprise Business Systems (EBS)	1300889192	>=$10M, <$50M	Seaport NxG	May-22	SBSA	BA ISEA IPT Technical Support
ENTERPRISE SYSTEMS - Infrastructure Systems (IS)	1300941806	>=$10M, <$50M	SeaPort NxG	Apr-22	SBSA	AC2 Gateway Modem Engineering Support Services

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Naval Information Warfare Center Atlantic

Shore C2ISR and Integration

Division 223

Audrey Orvin

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Shore C2ISR and Integration Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Shore C2ISR & Integration - Air Traffic Control Engineering	1300963295	>=$5M , <$10M	ATC Engineering Technical and Operational Total System Delivery Support	May-22	UNRESTRICTED	Fiber Optic Communications Intersite System (FOCIS)/Enhanced Terminal Voice Switch (ETVS) Upgrade
Shore C2ISR & Integration - Defense Health Information Technology	1300948321	>=$10M, <$50M	Seaport NxG	Sep-22	TBD	NETWORK PROTECTION DESIGN, DEPLOYMENT, AND ENGINEERING SUPPORT
Shore C2ISR & Integration - Defense Health Information Technology	1300923534	>=$100M, <$250M	Seaport NxG	Apr-22	SBSA	Medical Information Delivery Applied Services (MIDAS) Engineering Support
Shore C2ISR & Integration - Force Protection Solutions	1300971337	<$5M	SeaPort NxG	May-22	TBD	NAVSEA HQ ESS Sustainment

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Shore C2ISR and Integration Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Shore C2ISR & Integration - Force Protection Solutions	1300916023	>=$10M, <$50M	Seaport NxG	May-22	UNRESTRICTED	NGA SMS LifeCycle Optimization
Shore C2ISR & Integration - Force Protection Solutions	1300968035	>=$10M, <$50M	Seaport NxG	May-22	UNRESTRICTED	Marine Corps Electronic Security Systems (MCESS) Lifecycle Engineering Support (LCES)
Shore C2ISR & Integration - Force Protection Solutions	1300981663	>=$50M, <$100M	Seaport NxG	May-22	TBD	CNIC N6 Regional Support

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Shore C2ISR and Integration Forecast

Department	PR Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Shore C2ISR & Integration - Industrial Control Systems & Applications	1300978216	>=$10M, <$50M	Seaport NxG	May-22	TBD	Automated Fuel Services Technical Support
Shore C2ISR & Integration - Special Reconnaissance, Surveillance & Exploitation	1300962949	>=$5M , <$10M	Seaport NxG	Oct-22	TBD	Performance Based Logistics Support and Repair of Repairables Program support to NAVAIR PMA-290E

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Industry Forecast Report at https://e-commerce.sscno.nmci.navy.mil/ under the "News" tab

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Questions ?

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Office of Small Business Programs (OSBP)

Charleston Defense Industry Association
60th Small Business and Industry Outreach Initiative Symposium

20 April 2022

Ms. Robin Rourk
Deputy Director
Office of Small Business Programs
NIWC Atlantic

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More Industries Now Open to WOSB Set-Asides

U.S. Small Business Administration

Eligible NAICS for the Women-Owned Small Business Federal Contracting program (sba.gov)

- The Small Business Administration (SBA) has significantly expanded the roster of industries eligible for federal contract set-asides under its women-owned small business (WOSB) contracting program.
- A recent agency assessment concluded WOSBs were underrepresented in the federal marketplace for hundreds of North American Industry Classification System (NAICS) sectors. In response, SBA expanded the NAICS codes eligible for WOSB and economically disadvantaged WOSB (EDWOSB) set-asides from 444 to 759 — a 70 percent increase.
- “This … [expansion of] the WOSB program will help more women seize potentially hundreds of millions of dollars more in federal procurement opportunities across 92 [percent] of all federal small-business contract spending,” SBA Administrator Isabella Casillas Guzman says.
- The changes apply to new solicitations and are effective immediately.

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Updated Small Business Size Standards

NATIONAL ARCHIVES FEDERAL REGISTER The Daily Journal of the United States Government

[Federal Register :: Small Business Size Standards: Professional, Scientific and Technical Services; Management of Companies and Enterprises; Administrative and Support and Waste Management and Remediation Services+]

- The U.S. Small Business Administration (SBA) is increasing its receipts-based small business size definitions (commonly referred to as “size standards”) for North American Industry Classification System (NAICS) sectors related to Professional, Scientific and Technical Services; Management of Companies and Enterprises; Administrative and Support and Waste Management and Remediation Services.
  - 541330 Engineering Services $22.5M
  - 541330 (Exception 1)Military and Aerospace Equipment and Military Weapons $41.50M
  - 541330 (Exception 2)Contracts and Subcontracts for Engineering Services Awarded Under the National Energy Policy Act of 1992 $41.50M
  - 541330 (Exception 3)Marine Engineering and Naval Architecture $41.50M
- Effective 2 May 2022

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State of the Defense Industrial Base

THE WHITE HOUSE

Fact Sheet: Department of Defense Releases New Report on Safeguarding our National Security by Promoting Competition in the Defense Industrial Base | The White House

- Mergers and acquisitions (M&As) are further constraining the defense industrial base (DIB) and dampening the competitive forces that spur innovation and moderate pricing, the Department of Defense (DoD) warns.
- In a report released this week, DoD noted how the breadth of the DIB has shrunk drastically — for example, falling from 51 aerospace and defense prime contractors in the 1990s to merely five today — imperiling both economic and national security and "leaving DoD increasingly reliant on a handful of companies for critical defense capabilities," a fact sheet explains.
- Lack of competition can create myriad negative effects: "It may leave gaps in filling [mission] needs, remove pressures to innovate to outpace other firms, result in higher costs to taxpayers as leading firms leverage their market position to charge more, and raise barriers for new entrants," the report cautions. Small businesses especially punch above their weight in contributing to government needs: They not only constitute the future generation of suppliers but produce 16.5 times the patents larger firms do. Yet their ranks have dwindled by 40 percent in the last decade, and without decisive remedial action, DoD stands to lose another 15,000 in the next 10 years.

State of the Defense Industrial Base (Cont.)

To reverse these trends, the report proposes five actions:

- **Strengthen merger oversight**, with more stringent review of proposed M&As and collaboration with the Federal Trade Commission (FTC) and Department of Justice (DOJ) when a merger threatens defense interests.
- **Address intellectual property (IP) limitations** by identifying IP needs early in acquisition planning, incorporating IP as an evaluation factor in competitive awards and negotiating point for sole-source awards, and selecting vendors willing to provide the government with needed IP deliverables and rights.
- **Attract new DIB entrants** with small business outreach and support; flexible acquisition authorities like other transaction (OT) authority and commercial solutions openings (CSOs); and cross-sector engagement methods such as hackathons, pitch events, and prize challenges.
- **Increase opportunities for small businesses**, particularly in priority industrial base sectors, including making small business capabilities more visible throughout the enterprise, assessing policies and regulations to reduce barriers to working with DoD, and holding senior executives accountable for incorporating small business objectives into performance planning.
- **Implement sector-specific supply chain resiliency plans** for priority areas, including energy storage and batteries, strategic and critical materials, and microelectronics.
- “DoD is committed to pursuing these principles throughout its procurement and sustainment processes … efforts to increase competition will deliver benefits for cost, schedule, quality, performance, innovation, and industrial capacity,” the report states.

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State of the Defense Industrial Base

DOD Wants to Shepherd Small Business Innovators

MARCH 8, 2022 | BY C. TODD LOPEZ, DOD NEWS

https://www.defense.gov/News/News-Stories/Article/Article/2958863/dod-wants-to-shepherd-small-business-innovators/

"A lot of the small businesses, they have no idea who to even go talk to ... it's this giant wall in front of them. And, hopefully, once we get our website up and running, they can be able to Google and input whatever product that they have to help them figure out who to go talk to."

New Pentagon strategy to bring in small businesses coming soon

BY JOE GOULD, MARCH 7, 2022 | DEFENSE NEWS

https://www.defensenews.com/congress/2022/03/07/new-pentagon-strategy-to-bring-in-small-businesses-coming-soon/

"how to do make things easier from a structure, engagement and a policy perspective."

The problems with the defense-industrial base aren't about the contractors

BY DAVID J. BERTEAU FEB 16, 2022 | DEFENSE NEWS

https://www.defensenews.com/opinion/commentary/2022/02/16/the-problems-with-the-defense-industrial-base-arent-about-the-contractors/

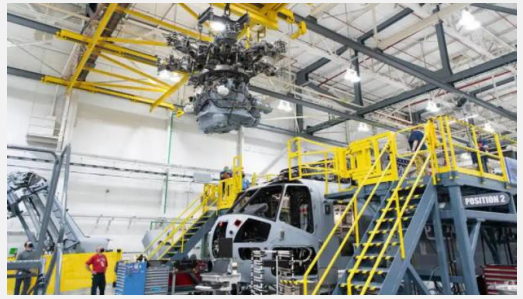
"Increasing new entrants and opportunities for small businesses"

The Defense Industrial Base's Vital Signs Aren't Looking Good

FEBRUARY 4, 2022 | BY ERIC TEGLER, FORBES

https://www.forbes.com/sites/erictegler/2022/02/04/the-defense-industrial-bases-vital-signs-arent-looking-good/?sh=5539478f2101

"U.S. technology gaps versus peer competition, industry competition, relative DIB profitability, and political and regulatory action/inaction" have contributed to fragility of the DIB"



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Advancing Equity in Federal Procurements

THE WHITE HOUSE

The Benefits of Increased Equity in Federal Contracting | The White House

- "Less than 10 percent of federal agencies' total eligible contracting dollars typically go to [SDBs], a category under federal law for which Black-owned, Latino-owned, and other minority-owned businesses are presumed to qualify," the White House explained. "Moreover, while women own roughly 20 percent of all small businesses economy-wide, less than 5 percent of federal contracting dollars go to women-owned small businesses."
- Accordingly, the Office of Management and Budget (OMB) tasks agencies with five actions:
  - Establish agency-specific fiscal year (FY) 2022 contracting goals in coordination with the Small Business Administration (SBA) that direct at least 11 percent of cumulative federal contract awards to SDBs
  - Assess and adjust category management (CatMan) practices to increase opportunities for SDBs and other socioeconomic small businesses, including updating agency policies to reflect new revisions to OMB's March 2019 CatMan guidance (detailed in an attachment to the memo)
  - Participate in efforts by OMB, SBA, the General Services Administration (GSA), and other federal organizations to amplify small business participation and bring new contractors into the federal marketplace
  - Set small business contracting goals for Senior Executive Service (SES) officials who oversee acquisition workforce programs
  - Ensure agency small business contracting offices have direct reporting lines to senior leadership

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America's Seed Fund Startup Expo

SBIR·STTR America's Seed Fund™

- America's Seed Fund Startup Expo enables entrepreneurs with technology developed through the SBIR/STTR programs an opportunity to present their innovative ventures to leading members of the broader innovation ecosystem and the American Public.
- America's Seed Fund Startup Expo | SBIR.gov

Objectives:

- To showcase innovative small businesses supported by America's Seed Fund
- To connect these startups with resources that enable their ability to scale, grow, and thrive
- To raise public awareness for commercialization of critical innovation necessary for continued competitiveness in the global marketplace
- To amplify and support entrepreneurship that creates jobs and drives forward the U.S. economy
- The inaugural America's Seed Fund Startup Expo will be a virtual event on Wednesday, May 25, 2022, from 12:30 - 4:30 PM EDT. The half day will include the winning presentations from up to 12 small businesses utilizing SBIR/STTR derived innovation and moderated discussions on AgTech and Food Security, Climate and Energy, National Security and Defense, and Supply Chain Resiliency.
- The event is open to the public.

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Small Business Digital Alliance (SBDA) Resources

Small Business Digital Alliance

How to access the SBDA's Digital Resource Library

- Small businesses can navigate the SBDA national members' tools and resources through the library for more personalized learning by visiting smallbusinessdigitalalliance.com. The library will be updated monthly with new resources throughout the year.

Resources available to small business owners through the SBDA library include:

- Tools geared toward establishing a digital presence, reaching new markets, managing growth, finding and retaining talent, improving operations, expanding customer bases, e-commerce, and raising capital;
- Live workshops and curricula tailored to business leaders' needs;
- Development and support in accelerating online and social media strategies; and
- Trainings to assist in accessing and utilizing digital tools provided by national members.

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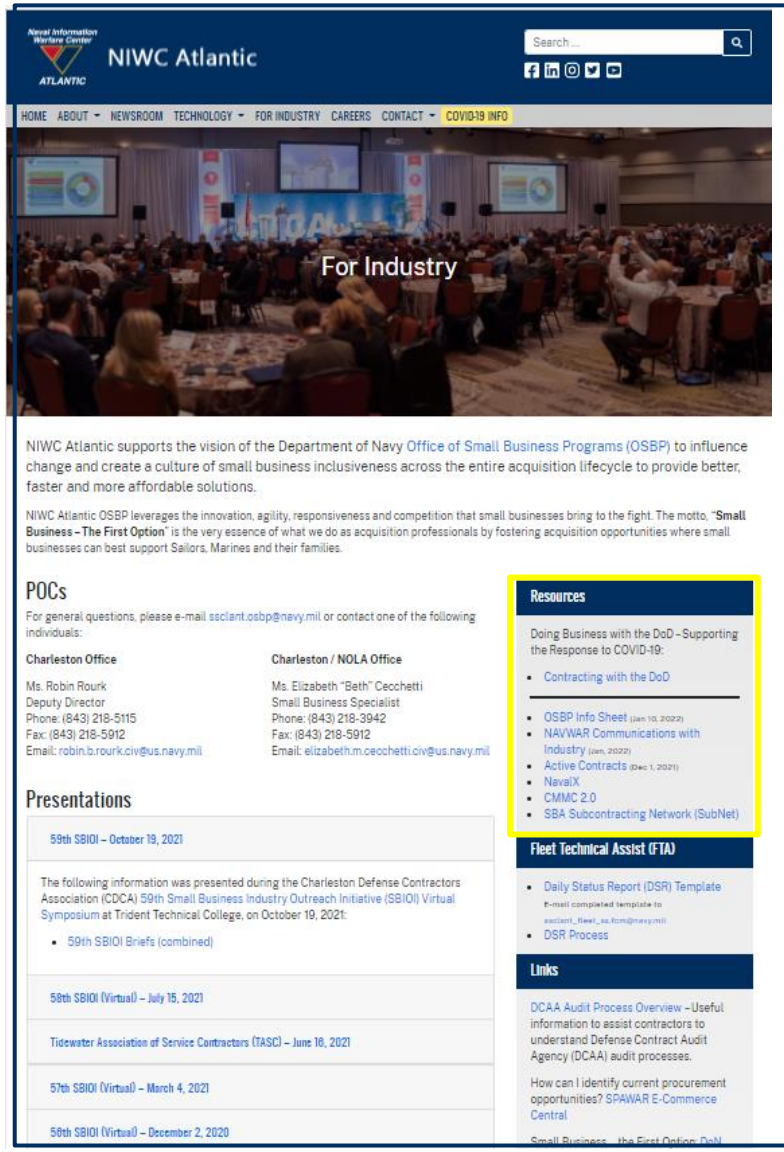
Training and Outreach



▼ NIWC Atlantic Public Page

https://www.niwcatlantic.navy.mil/

- Improved Content
- Upcoming Events
- Technology Page
- **Enhanced Industry Page** https://www.niwcatlantic.navy.mil/for-industry/

▼ DON Find your Small Business Professional

https://www.secnav.navy.mil/smallbusiness/Pages/find-your-professional.aspx#InplviewHash3020c5d1-e8a9-494d-aafb-f23b74cdba40=FilterField1%3DColumn6-FilterValue1%3D

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WIN THE INFORMATION WAR.

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NAVWAR Contract Directorate Office: https://e-commerce.sscno.nmci.navy.mil

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Questions ?